AASP African American Studies Summer 2024

AASP100 **Introduction to African American Studies**

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0201	Jason Nichols	Seats (Total: 7)
	Meets July 8, 2024 - August 16, 2024	
	TuWTh 10:00am - 12:15pm	ANS 0402
WB11	Jason Nichols	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AASP101 **Public Policy and the Black Community**

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

WB21	Alana Hackshaw	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AASP187 **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

Recommended: AASP100.

Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.

WB21	Robert Choflet	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AASP211 **Get Out: The Sunken Place of Race Relations in the Post-Racial Era**

Credit only granted for: AASP298G or AASP211. Formerly: AASP298G.

Prevailing thought suggests that we live in an era that is post-racial, particularly after the election of Barack Obama. Media often serves to drive our assessment of where our nation stands on issues like race, gender and sexuality. This course uses the film Get Out to delve into the production, evolution and significance of race in present day America. The course will engage multiple forms of media to investigate life in "Post-Racial" America, including but not limited to the role of stereotypes, interracial relationships, police-community relations, etc.

WB11	Shane Walsh	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AASP230 **Social (In)Justice and African-American Health and Well-Being**

African Americans suffer worse outcomes than non-Hispanic whites on nearly every health measure and outcomes that link to overall well-being like depressive symptoms or homicides. Health disparities are experienced by other underrepresented minority groups, but because of the unique historic and current experiences of African Americans, the determinants and solutions to African American health disparities are unique. The premise of this course is that African American health disparities are due to social injustices perpetuated on the institutional level that have permeated the lived experiences of African Americans leading to racial disparities in health and well-being. As such, the solutions on the both policy, and community, level must have a social justice approach.

WB11	Ashley Newby	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AASP298E **Special Topics in African American Studies; Reproductive Justice: An Introduction**

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

WB21	Melissa Stevens	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AASP398P **Selected Topics in the African Diaspora; Peoples and Culture of Africa**

Analysis of the historical experiences and cultures of Africans in the diaspora.

Contact department for information to register for this course.

AASP468Y **Special Topics in Africa and the Americas; Exploring Contemporary South Africa**

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP468Z **Special Topics in Africa and the Americas; Understanding Social Inequalities in Post-Apartheid South Africa**

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP498I **Special Topics in Black Culture; Women and the Civil Rights Movement**

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as HIST360 and WGSS498M. Credit granted for AASP498I, HIST360, or WGSS498M.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

AASP498R **Special Topics in Black Culture; Race and Sports**

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

This course delves into the multifaceted relationship between race, sport, and gender, exploring the historical and contemporary dynamics of race and sport. Students will examine how race and gender intersect with sport, challenging social norms and shaping political movements. Through the lens of critical race theory, we will analyze the role of athletes in addressing issues such as race, oppression, advocating for social justice, and politics. Topics include social justice movements in sports, the historical impact of race on sports, the impact of Name, Image & Likeness on Black student-athletes, and real-life stories of collegiate and professional athletes, illustrating the cultural agency of Black athletes amidst ongoing racial oppression in sports. The course integrates Critical Race Theory and Critical Sports Studies to deepen understanding of race, gender, sports, and social activism.

WB21	Tasha Harris	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AASP498Z **Special Topics in Black Culture; Black Women in Popular Culture: From the Blues to Beyonce**

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Black women are often hidden figures in American culture. However, from rap and pop music to films and novels, Black womens creative contributions to popular culture has been immense. To understand Black women's cultural contributions is to understand American history because Black women's history is American history. This course uses films such as Lemonade and Eves Bayou, and music by Billie Holiday and Sexyy Redd to explore how Black women have created their own identities and cultural forms while also reshaping the landscape of American popular culture. This class will discuss Black Identity, Black love, Black intergenerational trauma and healing, cultural appropriation, feminism, the Black family, respectability politics, colorism, as well as race and social media discourse.

WB21	Renina Jarmon	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AAST Asian American Studies Summer 2024

AAST351 **Asian Americans and Media**

Credit only granted for: AAST351, AAST398M or AAST398N. Formerly: AAST398M, AAST398N.

From yellow peril invaders to model minority allies, Asian Americans have crafted their own dynamic cultural expressions in a number of media from film, television, and music to fashion, sports, and food that reveal and contest the contradictions of the U.S. nation-state. Asian American culture also uniquely sits at the nexus of immigration flows and digital technologies, providing a transnational lens to view the US place in the world. This advanced course, then, will introduce students to the study and practice of Asian American cyktyre as multiple , hybrid, and heterogeneous. It will do so through three sections: section one will introduce students to classical, cultural, and media concepts as well as relevant keywords outlined by Asian American Studies scholars; section two will review the work of Asian American cultural theorists; section three will focus on analyses of particular Asian American cultural productions. In doing so, students will gain an understanding of the shifting and interlocking tensions among the local, the national, and the global that form the cultural geographies of Asian America.

WB51	Binod Paudyal	Seats (Total: 20)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
WB52	Binod Paudyal	Seats (Total: 20)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AAST355 **Asian Americans in Film**

Cross-listed with: AMST328W. Credit only granted for: AAST355, AAST398L or AMST328W. Formerly: 398L.

Explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.

WB31	Jennifer Cho **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB32	Jennifer Cho **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

AGNR Agriculture and Natural Resources Summer 2024

AGNR301 **Sustainability**

Cross-listed with: PLCY301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

WB41	Dani Moore **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm	Seats (Total: 30) ONLINE

AGNR499 **Special Problems**

(Perm req)

Contact department for information to register for this course.

AMSC Applied Mathematics & Scientific Computation Summer 2024

AMSC460 **Computational Methods**

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: CMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

WB21	Stefan Doboszczak	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 9:30am - 10:50am	ONLINE

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC689A **Research Interactions in Applied Mathematics and Scientific Computation**

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC698A **Advanced Topics in Applied Mathematics**

(Perm req)

Contact department for information to register for this course.

AMSC699 **Applied Mathematics Seminar**

Seminar to acquaint students with a variety of applications of mathematics and to develop skills in presentation techniques.

Contact department for information to register for this course.

AMSC799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

AMSC808A **Advanced Topics in Applied Mathematics**

Advanced topics of current interest.

0261	Ricardo Nochetto	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

AMSC898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

AMST American Studies Summer 2024

AMST101 **Introduction American Studies**

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

WB11	Zachary Johnson **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB21	Zachary Johnson **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

AMST203 **Popular Culture in America**

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

WB11	Devon Betts **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB21	Prisma Herrera **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

AMST269I **Special Topics in Study Abroad II; Images of Italian Americans in Film**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

AMST290 **Shifting Sands: Constructing Cultural Mainstreams and Margins in the U.S.**

Credit only granted for: AMST289A or AMST290. Formerly: AMST289A.

Examines the construction, operation, and meaning of cultural mainstreams and margins in a range of contexts, spaces, and times in the U.S. Using a variety of primary sources, research methods, and interdisciplinary scholarship, we will explore how Americans make and assign meaning to cultural mainstreams and margins. We will examine how and why cultural margins and mainstreams shift over time and what their consequences have been for social policies, laws, power relations, and national identity.

WB21	Robert Chester	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AMST298D **Selected Topics in American Studies; Introduction to Disability Studies**

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Cross-listed with: WGSS105. Credit only granted for: WGSS105 or AMST298D.

WB11	Jessica Mathiason	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AMST298J **Selected Topics in American Studies; Reproductive Justice: An Introduction**

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Cross-listed with: WGSS205.

WB21	Melissa Stevens	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

AMST369F **Special Topics in Study Abroad III**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

AMST398 **Independent Studies**

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

I101	Instructor: TBA	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

AMST498F **Special Topics in American Studies; Global Media Literacy**

Topics of special interest.

Contact department for information to register for this course.

AMST798 **Non-Thesis Research**

(Perm req)

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

I101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
I201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)

AMST857 **Museum Scholarship Practicum**

(Perm req)

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: ANTH857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I101	Paul Jaeger **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 12)

AMST899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ANSC Animal Science Summer 2024

ANSC359 **Internship Experience in Animal and Avian Sciences**

Experiential learning is a key component in an animal science education. Through the internship program, you will have the opportunity to develop your expertise in a specific species and discipline within the animal science curriculum. You will arrange an on- or off-campus internship experience related to animal science. You will spend a specified number of hours at the internship site each week and attend biweekly classroom sessions where we will discuss how the study of animal science fits into your specific internship experience as well as understand how to achieve each of the course learning outcomes.

WB11	Monica VanKlompenberg **Meets May 28, 2024 - August 16, 2024** Tu 6:00pm - 8:00pm	Seats (Total: 10) ONLINE
WB12	Monica VanKlompenberg **Meets May 28, 2024 - August 16, 2024** W 8:00am - 10:00am	Seats (Total: 10) ONLINE

ANSC389 **Experiential Learning**

(Perm req)

0118	Christine Hakenkamp **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Kristina Mayo **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0168	Younggeon Jin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

ANSC399 **Special Problems in Animal Science**

(Perm req)

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**
Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**
Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ANTH Anthropology Summer 2024

ANTH222 **Introduction to Ecological and Evolutionary Anthropology**

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

ANTH222 is a 4-credit lab course. Students should expect to spend approximately 45 hours for the asynchronous lecture and discussion portion of the course in addition to the 30 synchronous lab hours.

0101	Zev Cossin	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 10:00am - 12:15pm	BPS 1232	
	Class time/details on ELMs	ONLINE	
	TuTh 1:15pm - 4:00pm	WDS 0124B	Lab

ANTH240 **Introduction to Archaeology**

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

WB11	Joshua Samuels	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	F 3:30pm - 4:30pm	ONLINE	

ANTH263 **Sexuality and Culture**

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

WB11	Jeanne Hanna	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

ANTH265 **Anthropology of Global Health**

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

WB21	Laura Gilchrest	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

ANTH266 **Changing Climate, Changing Cultures**

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

WB31	Jana Kopelentova Rehak	Seats (Total: 30)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	
	Tu 4:00pm - 6:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
WB51	Jana Kopelentova Rehak	Seats (Total: 30)	
	Meets June 17, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	Tu 4:00pm - 6:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ANTH323 **Plagues, Pathogens and Public Policy**

Credit only granted for: ANTH429A or ANTH323. Formerly: ANTH429A.

The impact of diseases on populations from prehistoric times through the present will be examined, along with public perceptions of disease, scientific breakthroughs on treatment and prevention, and the ways that politics and public health policies can enhance or impede the advancement of disease treatment. The natural history of disease, population structure, and immunity will be discussed. The class will address emerging and re-emerging diseases and the ways that first responders, researchers, and policy makers may affect the outcome of an outbreak.

WB21	Laura Gilchrest	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

ANTH357 **Approaches to Sustainable Development**

Credit only granted for: ANTH298E or ANTH357. Formerly: ANTH298E.

An overview of the history of sustainable development, major development and environmental theories, and development strategies as they relate to an anthropological concern for an integrated, holistic, comparative, and humane approach to sustainable development.

WB51	Melissa Stevens	Seats (Total: 30)	
	Meets June 17, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

ANTH358B **Undergraduate Teaching Assistant**

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH386 **Experiential Learning**

(Perm req)

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH464 **Anthropology of Cultural Heritage**

Prerequisite: ANTH260. Jointly offered with ANTH664. Credit only grant ed for: ANTH469T, ANTH689T, ANTH464, ANTH664. Formerly: ANTH469T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

WB11	Kathryn Lafrenz Samuels	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	Th 11:30am - 12:45pm	ONLINE	Discussion

ANTH469B **Advanced Special Topics in Cultural Anthropology; Educational Anthropology**

Upper level cultural anthropology courses on varying topics derived from new interests of the faculty or the specialties of visiting scholars.

WB41	Jacqueline Messing	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

ANTH473 **Native American Languages and Cultures**

Jointly offered with: ANTH673. Credit only granted for: ANTH473 or ANTH673.

An introduction to Native American Languages and Cultures from a linguistic anthropological perspective. Topics to be explored include Native American identities, the stucture of Native languages, oral traditions, narrative story-telling, Native language and thought (Sapir/Whorf), language shift, linguistic revitalization, documentation of endangered languages, indigenous representation and appropriation, and racializing discourses.

WB41	Jacqueline Messing	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

ANTH496 **Field Methods in Archaeology**

Field training in the techniques of archaeological survey and excavation.

Cross-listed with ANTH696, HISP319A, and HISP619A.

Contact department for information to register for this course.

ANTH498J **Advanced Field Training in Ethnography; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH498M **Advanced Field Training in Ethnography; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH498W **Advanced Field Training in Ethnography; Jamaica: Connections, Celebration and Identity**

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH657 **Approaches to Sustainable Development**

Credit only granted for: ANTH657 or ANTH357.

An overview of the history of sustainable development, major development and environmental theories, and development strategies as they relate to an anthropological concern for an integrated, holistic, comparative, and humane approach to sustainable development.

WB51	Melissa Stevens	Seats (Total: 30)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ANTH664 **Anthropology of Cultural Heritage**

Credit only granted for: ANTH469T, ANTH689T, ANTH464 or ANTH664. Formerly: ANTH689T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

WB11	Kathryn Lafrenz Samuels	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	Th 11:30am - 12:45pm	ONLINE	Discussion

ANTH673 **Native American Languages and Cultures**

Jointly offered with: ANTH473. Credit only granted for: ANTH673 or ANTH473.

An introduction to Native American Languages and Cultures from a linguistic anthropological perspective. Topics to be explored include Native American identities, the stucture of Native languages, oral traditions, narrative story-telling, Native language and thought (Sapir/Whorf), language shift, linguistic revitalization, documentation of endangered languages, indigenous representation and appropriation, and racializing discourses.

WB41	Jacqueline Messing	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

ANTH688B **Current Developments in Anthropology; Educational Anthropology**

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

WB41	Jacqueline Messing	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

ANTH689M **Special Problems in Anthropology; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**
Contact department for information to register for this course.

ANTH696 **Field Methods in Archaeology**

Formerly: ANTH699.

Field training in the techniques of archaeological survey and excavation.

Cross-listed with ANTH496, HISP319A, and HISP619A.

Contact department for information to register for this course.

ANTH698J **Advanced Field Training in Ethnology; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH698W **Advanced Field Training in Ethnology; Jamaica: Connections, Celebration and Identity**

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH701 **Anthropology Internship Preparation**

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

I112	Paul Shackel	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ANTH749 **Cultural and Heritage Resource Management Internship**

An internship/practicum that would contribute to students' understanding of the overall process of CHRM. Students who are already working in CRM or a closely related field may use their employment as their practicum if the opportunity is available for them to learn beyond their current job duties.

PLA1	Matthew Palus	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

ANTH789 **Internship**

Individual instruction course supervised by a department faculty member.

I102	Matthew Thomann	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
I103	Andrea Lopez	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
I104	Yancey Orr	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

I105	Judith Freidenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I106	Janet Chernela **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I107	Michael Paolisso **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I108	Thurka Sangaramoorthy **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I109	Madeline Brown **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I110	L Jen Shaffer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I111	Mark Leone **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I112	Paul Shackel **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I113	Stephen Brighton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I114	George Hambrecht **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

I115	Christina Getrich **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I116	Kathryn Lafrenz Samuels **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I117	Barnet Pavao-Zuckerman **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I118	Joseph Richardson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I202	Matthew Thomann **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I203	Andrea Lopez **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I204	Yancey Orr **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I205	Judith Freidenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I206	Janet Chernela **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I207	Michael Paolisso **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I208	Thurka Sangaramoorthy **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I209	Madeline Brown **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I210	L Jen Shaffer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I211	Mark Leone **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I212	Paul Shackel **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I213	Stephen Brighton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I214	George Hambrecht **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I215	Christina Getrich **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I216	Kathryn Lafrenz Samuels **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I217	Barnet Pavao-Zuckerman **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I218	Joseph Richardson	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

ANTH799 **Master's Thesis Research**

PLA1	Matthew Palus	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

ANTH857 **Museum Scholarship Practicum**

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I201	Mary Alexander	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

AOSC Atmospheric and Oceanic Science Summer 2024

AOSC123 **Causes and Consequences of Global Change**

Cross-listed with: GEOL123. Credit only granted for: AOSC123, GEOG123, or GEOL123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB11	Samantha Kemper	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AOSC200 **Weather and Climate**

Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201.

What are weather and climate? Most people think they know but if you ask people to explain the differences and similarities you're bound to get a range of answers. Weather affects not just our daily activities but other important aspects of society such as transportation, commerce, security and agriculture. Most people understand what weather is to some extent. Climate and climate change are concepts that evoke strong emotional responses from people but are less well understood. In this class, students examine fundamental issues such as the greenhouse effect, severe weather, and global weather patterns and how they relate to a changing climate. Instruction in the lectures will provide the basic knowledge needed to understand these issues. In the discussion sections, students will be divided into groups to address the implications of these topics through group projects.

WB11	Jeffrey Henrikson	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AOSC201 **Weather and Climate Laboratory**

Corequisite: AOSC200.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, forecasting practice and climate modeling.

WB11	Samantha Halstead Santez	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AOSC247 **Scientific Programming: Python**

Prerequisite: MATH140. Recommended: Familiarity with basic descriptive statistics. Credit only granted for: AOSC458J or AOSC247. Formerly: AOSC458J.

A comprehensive introduction to scientific computation and visualization techniques with Python applied to data intensive questions in the Natural Sciences. The class emphasizes real-world applications, providing students with essential hands-on experience using Python for data analysis and visualization, developing analytical skills for observational and modeling data, and performing virtual experiments to distinguish data contributing factors. Students will gain an understanding of the scientific data issues including: signal vs noise, trend vs periodicity, mean vs extreme changes, and accuracy vs uncertainty. Students will gain extensive experience using command line linux. Skills including local and remote file transfer and synchronization, file and directory permission, utilities for diagnosing performance issues, and data compression.

Students must pay a $60.00 laboratory materials fee.

WB11	Jeffrey Henrikson	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

AOSC499 **Special Problems in Atmospheric Science**

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

0108	Rachel Pinker **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0112	Timothy Canty **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Ning Zeng **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
0208	Rachel Pinker **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0212	Timothy Canty **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

AOSC798 Directed Graduate Research

Directed graduate research in atmospheric and oceanic science.

0101	James Carton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Raghu Murtugudde **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Raghu Murtugudde **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Antonio Busalacchi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0112	Timothy Canty **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0115	Kenneth Pickering **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
0126	Da-Lin Zhang **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0131	Maria Molina **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Kayo Ide **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Raghu Murtugudde **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Da-Lin Zhang **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Kenneth Pickering **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Zhanqing Li **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Dale Allen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0221	Ernesto Berbery **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0225	Xin-Zhong Liang **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0231	Maria Molina **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

AOSC898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

AOSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ARAB Arabic Summer 2024

ARAB101 **Elementary Arabic I**

(Perm req)

Introduction to modern standard Arabic in both its spoken and written form. Equal emphasis on all four skill areas: speaking, listening, reading, and writing.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XLA1	Ahmed Hanafy **Meets June 17, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) BPS 1234

ARAB104 **Elementary Modern Standard Arabic I-II**

(Perm req)

Prerequisite: Must have appropriate World Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in the standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Lutf Alkebsi **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

ARAB105 **Elementary Modern Standard Arabic III-IV**

(Perm req)

Prerequisite: ARAB104; or must have appropriate World Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB104, developing further linguistic proficiency in Standard Arabic, both written and formal spoken. Covers an extended range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Lutf Alkebsi **Meets July 8, 2024 - August 2, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA
XL22	Ahmed Hanafy **Meets July 8, 2024 - August 2, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

ARAB204 **Intermediate Modern Standard Arabic I**

(Perm req)

Prerequisite: ARAB105; and must have appropriate World Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Dima Hanna **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

ARAB205 **Intermediate Modern Standard Arabic II**

(Perm req)

Prerequisite: ARAB204; or must have appropriate World Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB204, with exposure to a wide range of Arabic texts from different domains. Focus on vocabulary, more complex grammatical forms, and a better understanding of the formal aspects of using MSA as well as the cultural aspects of using the language.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Dima Hanna **Meets July 8, 2024 - August 2, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

ARAB315 **Intensive Advanced Arabic I**

(Perm req)

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB304.

Intensive training in written and spoken Arabic at the Advanced-low level of proficiency. Additional intensive training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Instructor: TBA **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

ARAB316 **Intensive Advanced Arabic II**

(Perm req)

Prerequisite: ARAB304 or ARAB315; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB305. Credit only granted for: ARAB305 or ARAB316.

Intensive training in written and spoken Arabic at the Advanced-mid level of proficiency. Additional training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Instructor: TBA	Seats (Total: 15)
	Meets July 8, 2024 - August 2, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

ARAB499T **Special Topics in Arabic Studies; Middle Eastern Cinema: Comedy, Horror, Politics**

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

A close look at transregional genres in contemporary Middle Eastern cinemas, with the focus on comedy, horror, and political cinema. Taught in English. Taught online, asynchronous format. Cross-listed with CINE429T. Credit only granted for ARAB499T, CINE429T, or FILM429T.

WB51	Valerie Anishchenkova	Seats (Total: 25)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ARCH Architecture Summer 2024

ARCH150 **Discovering Architecture**

Prerequisite: Permission of ARCH-Architecture Program.

Introduction to architecture and design studio education. The course examines fundamental design principles and skills related to architecture. The design studio projects apply ideas and concepts introduced in lectures, readings and on site visits. The design studio projects are both analytic and synthetic in nature. The explicit goals of the course are: To explore the discipline of architecture; To promote visual thinking and representational skills; To develop analytic design thinking skills; To learn some of the conventions of architectural representation; To enhance cultural awareness of architecture and design.

Students learn about careers in architecture, landscape architecture and urban planning. Architecture faculty teach basic design principles that students use to complete their own design project in a design studio environment.

YS41	Julia Klineberg	Seats (Total: 30)		
	Meets July 8, 2024 - July 26, 2024			
	MTuWThF 10:00am - 12:00pm	ARC 0101		
	MTuThF 1:00pm - 4:00pm	ARC 0101	Lab	
	W 1:00pm - 2:30pm	ARC 0101	Lab	
	Restricted to students in Terp Young Scholars.			

ARCH428B **Selected Topics in Architectural History; Vertical Communities: Programming for Urban Mobility**

Selected Topics in Architectural History

WB11	James Tilghman	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 7:00pm - 9:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ARCH428M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428R **Selected Topics in Architectural History; A Global History of Modern Architecture**

Selected Topics in Architectural History

WB11	Juan Burke	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	TuWTh 1:00pm - 3:15pm	ONLINE	

ARCH428V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH448B **Selected Topics in Visual Studies in Architecture; Design Drawing: Explorations in Mixed-Media**

Selected Topics in Visual Studies in Architecture

WB11	Kenneth Filler	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	MW 10:00am - 1:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ARCH465 **Architectural Structures II**

(Perm req)

Prerequisite: ARCH464 and PHYS121; and MATH120 or MATH140, or equivalent; or permission of the ARCH-Architecture Program. Restriction: Must be in either BS in Architecture or M. Architecture Program. Credit only granted for: ARCH412 or ARCH465.

The basic principles of elastic behavior for different materials such as wood, steel, concrete, and composite materials and compares the properties and applications of materials generally will be covered. It investigates cross sectional stress and strain behavior in flexure and in shear, and torsion as well as the stability of beams and columns. The qualitative behavior of combined stresses and fracture in materials is also covered.

WB21	Mostafa Fakharifar	Seats (Total: 20)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	TuTh 12:00pm - 2:30pm	ONLINE	

ARCH468J **Selected Topics in Architecture; Japan: The Built Environment, Planning, and the Exploration of Social Justice and Equity**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH468P **Selected Topics in Architecture; Resume and Portfolio Design**

(Perm req)

Selected Topics in Architecture

Restricted to students with 90 credits.

WB11	Hooman Koliji	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 10:00am - 12:15pm	ONLINE	

ARCH478F **Selected Topics in Architecture; Scandanavia Craft and Culture**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478K **Selected Topics in Architecture; Scandinavia: Culture and Place**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478P **Selected Topics in Architecture; Urban Redevelopment Studio**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478R **Selected Topics in Architecture; Architectural Drawings II**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478V **Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH483 **Field Archaeology**

Prerequisite: ARCH225 and ARCH226; or ARCH425 and ARCH426; or permission of the ARCH-Architecture Program.

Participation in field archaeology with an excavation officially recognized by proper authorities of local government.

Contact department for information to register for this course.

ARCH608R **Advance Special Topics Design Studio**

Topical architectural design studio with concentration on advanced theoretical, conceptual, technological, cultural or professional issue.

Contact department for information to register for this course.

ARCH628G **Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628R **Selected Topics in Architectural History; A Global History of Modern Architecture**

Graduate Selected Topics in Architectural History

WB11	Juan Burke	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	TuWTh 1:00pm - 3:15pm	ONLINE

ARCH628V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH668P **Advanced Selected Topics in Architecture; Resume and Portfolio Design**

(Perm req)

Graduate Selected Topics in Architecture.

Restricted to students with 90 credits.

WB11	Hooman Koliji	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 10:00am - 12:15pm	ONLINE

ARCH678F **Advanced Selected Topics in Architecture; Scandanavia: Craft and Culture**

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678K **Advanced Selected Topics in Architecture; Scandinavia: Culture and Place**

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678P **Advanced Selected Topics in Architecture; Urban Redevelopment Studio**

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678R **Advanced Selected Topics in Architecture; Drawing II: Architectural Representation**

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678V **Advanced Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

AREC Agricultural and Resource Economics Summer 2024

AREC250 **Elements of Agricultural and Resource Economics**

Credit only granted for: ECON200, AREC240 or AREC250.

An introduction to economic principles of production, marketing, agricultural prices and incomes, farm labor, credit, agricultural policies, and government programs.

0501	Billie Ray	Seats (Total: 40)
	Meets June 17, 2024 - July 5, 2024	
	MTuWThF 9:30am - 12:30pm	PHY 1402

AREC306 **Farm Management and Sustainable Food Production**

The organization and operation of farm businesses are explored through principles of management, financial analysis, production economics, marketing, and business planning. These farm management principles are presented in the context of a sustainable food production system.

Contact department for information to register for this course.

AREC365 **World Hunger, Population, and Food Supplies**

An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.

040Y	Maria Soppelsa	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 9:00am - 12:00pm	EDU 2119
YS41	Maria Soppelsa	Seats (Total: 15)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 9:00am - 12:00pm	EDU 2119
	Restricted to students in Terp Young Scholars.	

AREC386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

0101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0119	Dale Johnson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0219	Dale Johnson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

AREC399 **Special Problems**

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

0101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0119	Dale Johnson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0219	Dale Johnson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

AREC447 **The Economy of China**

Prerequisite: AREC326, ECON306, or ECON326.

An introductory survey course of economic development in China with emphasis on understanding the process of economic reform in mainland China since 1978.

0301	Jing Cai **Meets May 28, 2024 - June 14, 2024** MTuWThF 9:30am - 12:30pm	Seats (Total: 15) ATL 2428

AREC699 **Special Problems in Agricultural and Resource Economics**

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

0101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

AREC799 Master's Thesis Research

0101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)

0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

AREC898 **Pre-Candidacy Research**

(Perm req)

0104	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0135	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
0137	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)

0138	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0140	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0143	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0145	Maureen Cropper **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0150	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0235	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0237	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0238	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0240	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0243	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0245	Maureen Cropper **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0250	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I104	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
I127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I135	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
I137	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
I138	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
I140	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
I143	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
I145	Maureen Cropper **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)

I150	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

I167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I204	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I235	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I237	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
I238	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)

I240	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
I243	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
I245	Maureen Cropper **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
I250	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

AREC899 **Doctoral Dissertation Research**

0101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0139	Maureen Cropper **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

0202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0239	Maureen Cropper **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I101	Robert Chambers **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I102	Lori Lynch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I113	Erik Lichtenberg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I115	Lars Olson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I120	Anna Alberini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I122	Roberton Williams **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I126	Kenneth Leonard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I127	Billie Ray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

I128	Maria Soppelsa **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I130	David Newburn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I139	Maureen Cropper **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
I154	Jorge Holzer Bilbao **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I159	Neslihan Uler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I160	Jing Cai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I161	Joshua Linn **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I162	Erich Battistin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I163	James Archsmith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I164	Louis Preonas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

I165	Cory Smith **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I166	Ramakrishna Sharan Mamidipudi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I167	Becky Epanchin-Niell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I168	Paul Goeringer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I169	James MacDonald **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Robert Chambers **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I202	Lori Lynch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I213	Erik Lichtenberg **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I215	Lars Olson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I220	Anna Alberini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

I222	Roberton Williams **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I226	Kenneth Leonard **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I227	Billie Ray **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I228	Maria Soppelsa **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I230	David Newburn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I239	Maureen Cropper **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
I254	Jorge Holzer Bilbao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I259	Neslihan Uler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I260	Jing Cai **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I261	Joshua Linn **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

I262	Erich Battistin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I263	James Archsmith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I264	Louis Preonas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I265	Cory Smith **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I266	Ramakrishna Sharan Mamidipudi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I267	Becky Epanchin-Niell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I268	Paul Goeringer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I269	James MacDonald **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ARHU Arts and Humanities Summer 2024

ARHU230 **Introduction to Humanities, Health, and Medicine**

Restriction: Permission of ARHU-English Department. Cross-listed with: ENGL254, HIST219N, WGSS230. Credit only granted for: ARHU230 , ENGL289C, ENGL254, ARHU298A, HIST219N, or WGSS230.

An overview of the historical, cultural, ethical, and spiritual dimensions of medicine, human health, disease, and death from the points of view of various humanistic disciplines.

WB11	Daniel Richter **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB21	Robert Lucci **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARHU275 **Scriptwriting for Theater, Film, and Television**

Cross-listed with: ENGL275. Credit only granted for: ENGL275 or ARHU275.

Introduction to the theory and practice of scriptwriting with an opportunity to read, view, evaluate, write, and revise texts meant to be performed. Students will practice writing for the stage, film, and television and also examine selected scripts, performances, and film and television clips as models for their own creative work. Students will complete frequent writing exercises, participate in workshops, and learn to apply scholarship to the analysis and critique of scripts.

YS41	Oludolapo Demuren, Ross Angelella **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:30am - 12:30pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 15) TWS 1105

ARHU286 **Experiential Learning**

(Perm req)

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities.

Designed for students who are in their first semester at the University of Maryland and/or students who wish to complete legislative internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I102	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler, Jeffrey Kodis **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ARHU298J **Special Problems in Arts and Humanities; Creative Writing Workshop**

Students will read great poems and stories from across cultures and engage in related writing exercises. Students will share their own original writing in a supportive workshop setting, discover new approaches to revision.

WB4Y	Oludolapo Demuren **Meets July 8, 2024 - July 26, 2024** MTuWTh 1:00pm - 2:45pm	Seats (Total: 5) ONLINE
YW41	Oludolapo Demuren **Meets July 8, 2024 - July 26, 2024** MTuWTh 1:00pm - 2:45pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 13) ONLINE

ARHU338 **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0201	Oludolapo Demuren, Ross Angelella **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

ARHU386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	Susan Miller **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details. *This section is for students enrolled in the Arts Leadership Minor.*	Seats (Total: 10)
I101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I102	Susan Miller **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I103	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details. *This section is intended for students engaging in research-based internships.*	Seats (Total: 5)
I201	Paula Nadler, Jeffrey Kodis **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I101	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I102	Paula Nadler, Jeffrey Kodis **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler, Jeffrey Kodis **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

0101	Paula Nadler **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I102	Paula Nadler **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ARTH Art History & Archaeology Summer 2024

ARTH169A **Special Topics in Study Abroad I; Roman Archeology on-site**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

WB11	Tony Cui	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

WB21	Hannah Prescott	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ARTH230 **Symbolic Images: The Theory and Practice of Iconography in European Art, 1400-1850**

Iconographic interpretation of visual narratives, signs and symbols has long been a topic of art-historical inquiry. In early modern European art, images were often conceived with the deliberate intent of posing a 'puzzle' or 'problem' for the beholder to solve; yet in most cases we have little or no evidence of how contemporary beholders solved such enigmas. Provides students with the opportunity to take command of these research methods and source materials, addressing a genuine iconographic problem, researching the relevant literature, identifying the essential primary source evidence, making contextually appropriate assumptions, and producing a valid result.

WB21	Zoe Copeman	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH303 **Roman Art and Archaeology**

Sites and monuments of painting, sculpture, architecture, and the minor arts from the earliest times through the third century A.D. with emphasis on the Italian peninsula from the Etruscan period through that of Imperial Rome.

Contact department for information to register for this course.

ARTH323 **Fifteenth-Century Italian Renaissance Art**

Painting, sculpture, architecture, and the decorative arts of the fifteenth century in Italy.

Contact department for information to register for this course.

ARTH351 **Picturing Contemporary Life: Art Since 1945**

Visual art since 1945, with an emphasis on North America and Europe.

WB11	Patricia Ortega-Miranda	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ARTH359F **Film as Art; The Coen Brothers Films: Genre and Irony**

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB11	Greg Metcalf	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ARTH359G **Film as Art; Del Toro, Miyazaki, Burton: Cinematic Masters of Fantasy**

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB21	Greg Metcalf	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ARTH369J **Special Topics in Study Abroad III; Survey of Italian Renaissance and Mannerist Art 1300-1580**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH369T **Special Topics in Study Abroad III; Archaeology in Central Italy: The Etruscan and Roman Heritage**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Supervised internship experience in diverse areas of art historical, archaeological, and museological work.

Contact department for information to register for this course.

ARTH899 **Doctoral Dissertation Research**

0101	Alicia Volk	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ARTT Art Studio Summer 2024

ARTT110 **Elements of Drawing I**

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 studio lab fee.

0301	Matthew McLaughlin	Seats (Total: 12)
	Meets May 28, 2024 - June 14, 2024	
	MTuWTh 10:00am - 3:00pm	ASY 2317

ARTT169P **Special Topics in Study Abroad I; Studio Art I: Drawing and Painting Italy**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT210 **Elements of Drawing II**

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 studio lab fee.

0301	Matthew McLaughlin	Seats (Total: 8)	
	Meets May 28, 2024 - June 14, 2024		
	MTuWTh 10:00am - 3:00pm	ASY 2317	Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 studio lab fee.

WB21	Shannon Collis	Seats (Total: 12)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Online introduction to basic software and principles of digital imaging and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.	

ARTT269I **Special Topics in Study Abroad II; Studio Art II: Drawing and Painting Italy**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT320 **Elements of Painting**

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes of oil and/or acrylic painting.

Contact department for information to register for this course.

ARTT330 **Elements of Sculpture: Metal Casting**

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

0301	Steven Jones	Seats (Total: 8)
	Meets May 28, 2024 - June 14, 2024	
	MTuWTh 10:00am - 3:00pm	ASY 1310

ARTT330H **Elements of Sculpture: Metal Casting**

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Contact department for information to register for this course.

ARTT343 **Elements of Printmaking: Screen Printing**

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

0301	Varvara Tokareva	Seats (Total: 15)
	Meets May 28, 2024 - June 14, 2024	
	MTuWTh 10:00am - 3:00pm	ASY 1317

ARTT353 **Elements of Photography**

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to digital photographic image-making. With an emphasis on technical, aesthetic and conceptual understanding of the photographic medium, camera operation, and photographic composition. Students must have access to a Digital SLR or mirrorless camera capable of interchangeable lenses for this class.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT369A **Special Topics in Study Abroad III; Focus: Introduction to Digital Photography as Fine Art**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369D **Special Topics in Study Abroad III; Design: London**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369L **Special Topics in Study Abroad III; Writing with Light**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369T **Special Topics in Study Abroad III; Travel Photography**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT409L **Study Abroad Special Topics IV; Design, Art and Culture: London**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT418B **Advanced Drawing Studio; Contemporary Approach**

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200 and ARTT210; plus one 300-level studio course; or permission of Department. Repeatable to 12 credits. Students must pay a $40.00 studio lab fee. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

0301	Matthew McLaughlin	Seats (Total: 5)	
	Meets May 28, 2024 - June 14, 2024		
	MTuWTh 10:00am - 3:00pm	ASY 2317	Lab

ARTT460 **Seminar in Art Theory**

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT489A **Advanced Special Topics in Art; Graphic Design**

Advanced studio art and theory within the context of a special topic.

This course introduces students to basic design principles and processes designers, illustrators, and photographers use for screen and print. Students will explore the fundamental techniques of graphic design with an emphasis on conceptual and aesthetic concerns, along with developing approaches to the creative process.

WB31	Antwon Key	Seats (Total: 15)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	

ARTT498A **Directed Studies in Studio Art**

(Perm req)

Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ASTR Astronomy Summer 2024

ASTR100 **Introduction to Astronomy**

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

WB11	Marvin Jones **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE	
WB21	James Hunt **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 20) ONLINE	

ASTR101 **General Astronomy**

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Students must pay a $50.00 Laboratory Materials fee.

WB11	Marvin Jones **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm TuTh 1:00pm - 3:00pm	Seats (Total: 20) ONLINE ONLINE	 Lab
WB21	James Hunt **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am TuTh 11:00am - 1:00pm	Seats (Total: 20) ONLINE ONLINE	 Lab

ASTR498 **Special Problems in Astronomy**

(Perm req)

Research or special study. Credit according to work done.

0129	Melissa Hayes-Gehrke **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)	
0229	Melissa Hayes-Gehrke **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)	

ASTR699 **Special Problems in Advanced Astronomy**
Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

BCHM Biochemistry Summer 2024

BCHM461 **Biochemistry I**

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Christopher Capp	Seats (Total: 55)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:50am	CHM 1402

BCHM463 **Biochemistry of Physiology**

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Christiana Guest	Seats (Total: 36)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:50am	PHY 2211

BCHM699 **Special Problems in Biochemistry**

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**
Contact department for information to register for this course.

BCHM898 **Pre-Candidacy Research**
Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

BDBA Doctor of Business Administration Summer 2024

BDBA808B **Special Topics in Information Systems; Independent Research Study**

Special topics specific to the Information Systems doctoral field of study.

WD31	Jui Ramaprasad	Seats (Total: 12)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BDBA808D **Special Topics in Information Systems; Independent Research Study**

Special topics specific to the Information Systems doctoral field of study.

WD41	Jui Ramaprasad	Seats (Total: 12)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE Bioengineering Summer 2024

BIOE221 **Academic and Career Planning**

(Perm req)

Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.

WB21	Abby Shantzis	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE232 **Bioengineering Thermodynamics**

(Perm req)

Prerequisite: PHYS261 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

WB21	Jarred Callura	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	MTuTh 9:30am - 12:00pm	ONLINE

BIOE371 **Linear Systems and Ordinary Differential Equations for Bioengineering Applications**

(Perm req)

Prerequisite: BIOE241; and must have completed or be concurrently enrolled in MATH246. Restriction: Permission on ENGR-Fischell Department of Bioengineering department.

This class utilizes fundamentals in linear systems, including eigenvalues and eigenvectors, as well as linear differential equations, to study various problems in bioengineering and biological systems, with a particular emphasis on feedback, stability, controllability, and control design.

0101	Jose Aranda-Espinoza	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	TuWTh 9:00am - 12:00pm	AJC 2119

BIOE399 **Independent Study in Bioengineering**

(Perm req)

Independent study.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

(Perm req)

Independent study.

Contact department for information to register for this course.

BIOE431 **Fundamentals of Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Prerequisite: CHEM135, PHYS260, PHYS261, BSCI330, BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

WB21	Ian White	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE442 **Python: Introduction to Programming and Data Analysis**

(Perm req)

Prerequisite: BIOE241, BIOE120, BIOE121, and MATH241; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE489A or BIOE442. Formerly: BIOE489A.

Provides an introduction to structured programming, computational methods, and data analysis techniques with the goal of building a foundation allowing students to confidently address problems in research and industry. Fundamentals of programming, algorithms, and simulation are covered from a general computer science perspective, while the applied data analysis and visualization portion makes use of the Python SciPy stack.

WB11	Bardia Yousefi	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	MW 4:00pm - 7:30pm	ONLINE

BIOE631 **Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Prerequisite: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE631, BIOE689Z, or CHPH718Z. Formerly: BIOE689Z.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

WB21	Ian White	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE658G **Special Topics in Bioengineering (M.Eng.); Genome Editing & Synthetic Biology**

(Perm req)

Special topics in Bioengineering.

BI01	Jarred Callura	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE658W **Special Topics in Bioengineering (M.Eng.); Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Special topics in Bioengineering.

BI01	Ian White	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BIOE689 **Special Topics in Bioengineering**

(Perm req)

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

BIOI Bioinformatics and Computational Biology — Summer 2024

BIOI610 **Genome Annotation**

Prerequisite: BIOI604.

An introduction to approaches for the structural and functional annotation of genome content. Topics covered include the following: ab initio gene/coding sequence discovery; signals and signal sensors (including regulatory sequences); non-protein coding genes and other structural features of genome sequences; similarity searches (orthologs, paralogs, xenologs); clustering of genes by sequence similarity; clusters of orthologous genes; phylogenetic classification of genes; gene ontologies, gene set enrichment analyses; NGS functional assays; integrated genomics circuits; and annotation databases. Prerequisite: BIOI 604

PCS1	Jeffrey Robinson	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	W 6:00pm - 9:30pm	MTH B0431
	The lecture may be conducted online some weeks and in person other weeks. Please see ELMS for Class meeting details. Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.	

BIOL Biology — Summer 2024

BIOL609 **Special Problems in Biology**

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL799 **Master's Thesis Research**
Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0212	Ricardo Araneda **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0223	Carlos Machado **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

BIOM Biometrics Summer 2024

BIOM301 **Introduction to Biometrics**

Prerequisite: MATH113 or MATH115.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

WB51	Christine Hakenkamp **Meets June 17, 2024 - July 5, 2024**	Seats (Total: 60)	
	MTuWThF 11:00am - 1:00pm	ONLINE	
	MTuWThF 1:00pm - 2:00pm	ONLINE	Discussion

BISI Biological Sciences Summer 2024

BISI699 **Special Problems in Biological Sciences**

Independent study with a specific faculty instructor from the Biological Sciences Program (BISI). Often involves original research in a laboratory or computational setting.

0201	Caren Chang **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

BISI799 **Master's Thesis Research**
Contact department for information to register for this course.

BISI898 **Pre-Candidacy Research**

0103	Xiaoping Zhu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0189	Utpal Pal **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 3)
0203	Xiaoping Zhu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0278	Nathan Swenson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 3)
0289	Utpal Pal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 3)
0290	Brian Pierce **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 3)
0295	Philip Johnson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 3)

BISI899 **Doctoral Dissertation Research**

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)

0110	Margaret Scull **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0111	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0112	Carlos Machado **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0119	Christopher Jewell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0121	Zhongchi Liu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0123	Kevin McIver **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0124	Karen Carleton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0125	Jose Feijo **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0126	Robert Patro **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0127	Stephen Mount **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0140	Sougata Roy **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
0141	Eric Haag **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0142	David Mosser **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0167	Wenxia Song **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0169	Anne Simon **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0172	Debabrata Biswas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0177	Volker Briken **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0185	Ricardo Araneda **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0188	Utpal Pal **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0189	Xiaoping Zhu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0202	Kan Cao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Patrick Kanold **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Bill Lamp **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0210	Margaret Scull **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0211	Heidi Fisher **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0212	Carlos Machado **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0213	Antony Jose **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0214	Sridhar Hannenhalli **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0218	Shunyuan Xiao **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0219	Christopher Jewell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0220	Mihai Pop **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0221	Zhongchi Liu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0223	Kevin McIver **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0224	Karen Carleton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0225	Jose Feijo **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0226	Robert Patro **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0228	Thomas Kocher **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
0232	Daniel Gruner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0239	Silvina Matysiak **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0240	Sougata Roy **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0241	Eric Haag **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0242	David Mosser **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0254	Jeffrey DeStefano **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0267	Wenxia Song **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0271	Jonathan Dinman **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0272	Debabrata Biswas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0277	Volker Briken **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0278	Nathan Swenson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0285	Ricardo Araneda **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0287	Gerald Wilkinson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0288	Utpal Pal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0289	Xiaoping Zhu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0290	Brian Pierce **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 3)
0291	Wade Winkler **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I227	Stephen Mount **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
I242	David Mosser **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)

BMGT Business and Management Summer 2024

BMGT099 **Internship Seminar**

(Perm req)

Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

CP25	John Malone **Meets July 29, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 200)

BMGT110 **Introduction to the Business Value Chain**

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

All course material is delivered online.

WB21	Jeff Miller	Seats (Total: 45)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BMGT120 **Accounting: The Key to Business Decisions**

Accounting has long been known as the language of business. Like any other language, accounting is an invaluable skill set that can be applied to every aspect of your life. Accounting teaches you a brand-new way of thinking which can be translated to any industry or career. This course will cover how basic financial statements are created, what each statement represents for a company, and how to interpret these financial statements to draw meaningful conclusions and make sound business decisions. This course is good preparation for future introductory accounting courses like BMGT220 Principles of Accounting I.

WB4Y	Michael Kimbrough, Caroline Ashburn	Seats (Total: 5)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 10:00am - 1:00pm	ONLINE
	Open to all undergraduate BMGT majors.	
YW41	Michael Kimbrough, Caroline Ashburn	Seats (Total: 26)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 10:00am - 1:00pm	ONLINE
	Restricted to students in Terp Young Scholars.	

BMGT210 **Foundations of Accounting for Non Business Majors**

Restriction: Must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Students pursuing a Smith School minor who have completed both BMGT220 and BMGT221 may substitute these courses for BMGT210. Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.

Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.

WB11	Darlene Dennison **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

BMGT220 **Principles of Accounting I**

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

WB11	Edward Scott **Meets May 28, 2024 - July 5, 2024** MTuWThF 10:00am - 11:30am	Seats (Total: 45) ONLINE

BMGT230 **Business Statistics**

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

WB11	Eunseong Jang **Meets May 28, 2024 - July 5, 2024** TuTh 2:00pm - 5:25pm	Seats (Total: 35) ONLINE
WB21	Jiannan Xu **Meets July 8, 2024 - August 16, 2024** TuTh 2:00pm - 5:10pm	Seats (Total: 35) ONLINE

BMGT262 **The Enterprising Leader**

Designed to help students develop their leadership skills in order to identify their personal and professional purpose with an entrepreneurial mindset, and create strategies that will help them develop their abilities and achieve their aspirations by collaborating within teams and organizations. Students will apply insights from recent scholarship in entrepreneurship, leadership and strategic management to themselves in order to identify solutions to problems they find meaningful to solve in their own world. This self-discovery course will introduce students to the "CEO of ME, Inc." framework and tools such as the strategic initiatives matrix and business model canvas that they can use to help guide the choices that lie ahead, and develop collaborative, win-win relationships. In doing so, students will learn how to unlock the value of business in society and develop entrepreneurial and leadership skills that enable personal happiness and upward mobility.

This course is part of Terp Young Scholars a program designed for high school students. Enrollment for undergraduate students by permission only (email tys@umd.edu).

YS41	Margaret Malewski	Seats (Total: 36)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 9:30am - 12:30pm	VMH 1308
	Restricted to students in Terp Young Scholars.	
YW41	Frank Goertner	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 10:00am - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Restricted to students in Terp Young Scholars.	

BMGT289I **Why Good Managers Make Bad Decisions**

This course provides an overview of the concepts, approaches, and vocabulary of evidence-based management (EBM) and provides an understanding of how experts in many disciplines can employ evidenced based decision making. EBM is an emerging movement in business to explicitly use the current best information in management decision making with special emphasis on relevant scientific findings and unbiased organizational facts. The course stresses how individuals practicing EBM learn how to rethink their approaches to data and knowledge in order to make more effective decisions.

WB31	Jeff Miller	Seats (Total: 25)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE
WB41	Jeff Miller	Seats (Total: 25)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

BMGT301 **Introduction to Information Systems**

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Major restriction is not applicable this summer course. Any interested student may register.

WB11	Weihong Zhao	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 6:00pm - 9:25pm	ONLINE

BMGT340 **Business Finance**

Prerequisite: BMGT220; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

WB11	Apoorva Javadekar	Seats (Total: 65)
	Meets May 28, 2024 - July 5, 2024	
	MW 10:00am - 1:45pm	ONLINE

BMGT345 **Foundations of Financial Management for Non Business Majors**

Prerequisite: BMGT210 or BMGT220. Restriction: Must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. BMGT340 may substitute for BMGT345.

Provides students an overview of financial management. Students will understand how a business allocates financial resources in an uncertain environment to maximize shareholder value. In addition students will learn the following: how to apply accounting principles to corporate finance; how to value assets, projects, companies and investment securities; understand the relationship between risk and return and how it impacts investment and corporate decisions; how to calculate a company's cost of capital, and develop an intuitive comprehension of financial concepts and analysis.

WB21	Michael Padhi	Seats (Total: 45)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BMGT350 **Marketing Principles and Organization**

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

WB21	Roxanne Lefkoff	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 6:00pm - 9:10pm	ONLINE

BMGT355 **Foundations of Marketing for Non Business Majors**

Restriction: Must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. BMGT350 may substitute for BMGT355.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

WB11	Idil Yaveroglu	Seats (Total: 45)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

BMGT357 **Marketing Internship**

(Perm req)

Prerequisite: BMGT350. Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience with a firm engaged in marketing goods or services. Students apply concepts learned in marketing classes and analyze the firm's organizational structure, environment and marketing strategy.

Click here for more course information.

I201	Jeffrey Lawrence	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

BMGT364 **Managing People and Organizations**

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

WB11	Jinyoung Sohn	Seats (Total: 42)
	Meets May 28, 2024 - July 5, 2024	
	MW 2:00pm - 5:45pm	ONLINE

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credit only granted for: BMGT375 or BMGT372.

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

All course material is delivered online.

WB21	Humberto Coronado	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	All course material is delivered online.	

BMGT373 **Supply Chain Management Internship**

(Perm req)

Prerequisite: BMGT370 or BMGT372. Restriction: Permission of BMGT-Robert H. Smith School of Business.

Involves supervised work experience in supply chain management, logistics and/or transportation. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more course information.

I201	Ruifeng Wang	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

BMGT380 **Business Law I**

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Course includes a weekly synchronous online meeting in addition to asynchronous activities. All course content will be delivered online.

WB21	Justin Reyna	Seats (Total: 43)
	Meets July 8, 2024 - August 16, 2024	
	M 6:00pm - 9:10pm	ONLINE
	Class time/details on ELMs	ONLINE

WB22	Justin Reyna **Meets July 8, 2024 - August 16, 2024** Tu 6:00pm - 9:10pm Class time/details on ELMs	Seats (Total: 43) ONLINE ONLINE
WB23	Justin Reyna **Meets July 8, 2024 - August 16, 2024** W 6:00pm - 9:10pm Class time/details on ELMs	Seats (Total: 43) ONLINE ONLINE

BMGT386 **General Business Internship**

(Perm req)

Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience in business. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more information.

I201	Abhay Grover **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I202	Abhay Grover **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

BMGT392 **Introduction to International Business Management**

Prerequisite: ECON200.

A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.

Contact department for information to register for this course.

BMGT395 **Principles of Management for Non Business Majors**

Restriction: Must not have completed BMGT364; and must not be a major in the Robert H. Smith School of Business. Credit only granted for: BMGT395 or BMGT364. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT364 for General Business minor students only.

Introduces concepts related to organization behavior. Topics include leadership, team decision making and management, conflict resolution and negotiations, organizational culture, and organization change. Students will learn how to apply those concepts and theories to understanding and critically analyzing various individual, interpersonal, group, and organizational management processes.

WB21	Nicole Coomber	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BMGT398 **Individual Study in Business and Management**

(Perm req)

Contact department for information to register for this course.

BMGT454 **Global Marketing**

Prerequisite: BMGT350.

Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.

Contact department for information to register for this course.

BMGT461 **Entrepreneurship**

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460, SMLP470 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Contact department for information to register for this course.

BMGT463 **Cross-cultural Challenges in Business**

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

Contact department for information to register for this course.

BMGT488B **Special Topics in Logistics, Business, and Public Policy; The Business of Music**

Selected advanced topics in logistics, business and public policy.

WB21	Jeffrey Mund **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *Course meets in an asynchronous format. Optional office hours will be available at a time to be determined.*	Seats (Total: 40) ONLINE

BMGT495 **Strategic Management**

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

WB11	Vineet Gambhir **Meets May 28, 2024 - July 5, 2024** MW 6:00pm - 9:45pm	Seats (Total: 42) ONLINE
WB12	Vineet Gambhir **Meets May 28, 2024 - July 5, 2024** TuTh 6:00pm - 9:25pm	Seats (Total: 42) ONLINE

BMGT828 **Independent Study in Business and Management**

(Perm req)

By permission only of the Graduate Director.

Contact department for information to register for this course.

BMGT898 **Pre-Candidacy Research**
Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

Contact Graduate Program Director to make arrangements.

Contact department for information to register for this course.

BMSO Online Business MS Programs Summer 2024

BMSO602 **Decision Analytics**

Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in an online Business Master of Science program; or permission of BMGT-Robert H. Smith School of Business.

Difficult decisions require spending scarce resources. A 'resource' is any asset used to leverage business objectives, such as time and money. Tradeoffs are involved in allocating resources to one objective as opposed to another. This course develops a quantitative framework for studying resource allocation problems that arise in many industries and areas such as transportation, advertising, finance, and healthcare. The focus will be on translating verbal descriptions into quantitative optimization models, whereby standard tools (such as Microsoft Excel) can be applied to obtain solutions. The course also covers the role of uncertainty and risk in the decision-making process by using Monte-Carlo simulation models.

WN11	Suresh Acharya	Seats (Total: 0)
	Meets May 15, 2024 - August 23, 2024	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO603 Data Mining and Predictive Analytics

Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in an online Business Master of Science program; or permission of BMGT-Robert H. Smith School of Business.

In the business press, on TV, and in board rooms, 'machine learning,' 'AI,' 'big data' and 'data analytics' are now hot topics. Vast quantities of data are being generated these days, including new types of data such as web traffic, social network data, and reviews and comments on websites. This data is a valuable resource that, when used correctly, can create a competitive edge for companies. Advances in computing hardware and algorithms have significantly improved the quality of predictions and effectiveness of business applications based on them. Expertise in working with data, and a sound knowledge of data mining/machine learning methods, is a much sought after skill. The course provides an introduction to the key tools and techniques of data mining/machine learning, including classification, prediction, cluster analysis, association rules, and text mining. The methods covered are Linear Regression, Logistic Regression, K-nearest neighbors, Naive Bayes, Classification and Regression Trees, Ensemble methods, Neural Networks, K-Means and Hierarchical Clustering, and Association Rules. The focus throughout will be on business applications. Examples from Marketing, Finance, Healthcare, and Operations will be used to illustrate the breadth of applications.

WN11	Kislaya Prasad	Seats (Total: 0)
	Meets May 15, 2024 - August 23, 2024	
	Tu 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO758B Special Topics in Business; Strategy Analytics

Selected advanced topics in the various fields of graduate study in business.

WN11	David Waguespack	Seats (Total: 40)
	Meets May 15, 2024 - July 5, 2024	
	Th 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO758G **Special Topics in Business; Customer Equity Management**

Selected advanced topics in the various fields of graduate study in business.

WN21	Pallassana Kannan	Seats (Total: 35)
	Meets July 8, 2024 - August 23, 2024	
	Th 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO758P **Special Topics in Business; Data Processing and Analysis in Python**

Selected advanced topics in the various fields of graduate study in business.

WN11	John Bono	Seats (Total: 35)
	Meets May 15, 2024 - August 23, 2024	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO758V **Special Topics in Business; Data Visualization**

Selected advanced topics in the various fields of graduate study in business.

WN11	Bharti Motwani	Seats (Total: 35)
	Meets May 15, 2024 - August 23, 2024	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BMSO759 **Independent Study in Business**

(Perm req)

Independent study for Masters students in Business.

WN11	Suresh Acharya	Seats (Total: 1)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

BSCI Biological Sciences Program Summer 2024

BSCI135 **Amazing Green: Plants that Transformed the World**

In what profound ways have plants changed humanity and the world we live in today? An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

0101	Edgar Moctezuma	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MTuTh 12:00pm - 1:20pm	ONLINE	
	WF 12:00pm - 1:20pm	HJP 3237	
	WF 2:00pm - 4:00pm	HJP 3237	Lab

BSCI160 **Principles of Ecology and Evolution**

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI106 or BSCI160. Formerly: BSCI106.

Basic principles of biology with special emphasis on ecological and evolutionary biology.

(Sponsoring Dept.: BSCI)

WB11	Marcia Shofner	Seats (Total: 46)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

BSCI161 **Principles of Ecology and Evolution Lab**

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

0101	Hans Lemke	Seats (Total: 23)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 9:00am - 12:00pm	HJP 3211	Lab

BSCI170 **Principles of Molecular & Cellular Biology**

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.

Basic principles of biology with special emphasis on cellular and molecular biology.

WB21	Michael Keller	Seats (Total: 85)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

BSCI171 **Principles of Molecular & Cellular Biology Laboratory**

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI170. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

0201	Swarna Mohan **Meets July 8, 2024 - August 16, 2024** TuTh 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	 Lab
0202	Swarna Mohan **Meets July 8, 2024 - August 16, 2024** TuTh 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	 Lab

BSCI201 **Human Anatomy and Physiology I**

Prerequisite: Minimum grade of C- in BSCI170; or students who have taken courses with comparable content may contact the CMNS-Biology department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, and sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. (Sponsoring Department: BIOL.)

0101	Caitlin Fox, Maira Goytia **Meets May 28, 2024 - July 5, 2024** M 12:00pm - 1:40pm TuWTh 12:00pm - 1:40pm TuWTh 9:00am - 11:50am	Seats (Total: 24) ONLINE BPS 1243 BPS 0205	 Lab
0103	Caitlin Fox, Maira Goytia **Meets May 28, 2024 - July 5, 2024** M 12:00pm - 1:40pm TuWTh 12:00pm - 1:40pm TuWTh 2:00pm - 4:50pm	Seats (Total: 24) ONLINE BPS 1243 BPS 0205	 Lab

BSCI202 **Human Anatomy and Physiology II**

Prerequisite: Minimum grade of C- in BSCI201; or students who have taken courses with comparable content may contact the CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. Sponsoring Department: BIOL.

0201	Justicia Opoku-Edusei, Caitlin Fox **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs TuWTh 9:00am - 11:50am	Seats (Total: 24) ONLINE BPS 0201	 Lab
0203	Justicia Opoku-Edusei, Caitlin Fox **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs TuWTh 1:00pm - 3:50pm	Seats (Total: 24) ONLINE BPS 0201	 Lab
0204	Justicia Opoku-Edusei, Caitlin Fox **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs TuWTh 1:00pm - 3:50pm	Seats (Total: 24) ONLINE BPS 0275	 Lab

BSCI222 **Principles of Genetics**

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

WB11	Kimberly Paczolt **Meets May 28, 2024 - July 5, 2024** F 11:00am - 12:50pm Class time/details on ELMs TuTh 9:00am - 10:50am	Seats (Total: 24) ONLINE ONLINE ONLINE	 Discussion
WB12	Kimberly Paczolt **Meets May 28, 2024 - July 5, 2024** F 11:00am - 12:50pm Class time/details on ELMs WF 9:00am - 10:50am	Seats (Total: 24) ONLINE ONLINE ONLINE	 Discussion
WB13	Kimberly Paczolt **Meets May 28, 2024 - July 5, 2024** F 11:00am - 12:50pm Class time/details on ELMs TuTh 9:00am - 10:50am	Seats (Total: 24) ONLINE ONLINE ONLINE	 Discussion

BSCI223 **General Microbiology**

Prerequisite: BSCI170 and BSCI171; or BSCI105. Credit only granted for: BSCI223 or BSCI283.

How have microorganisms exploited every conceivable ecological niche, and how have humans harnessed this diversity to improve medicine, agriculture, and biotechnology? The course covers fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry, and biotechnology.

Students must pay a $40.00 laboratory materials fee.

0101	Erin Tran	Seats (Total: 16)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 10:30am - 11:30am	SQH 1117	
	MTuWThF 12:00pm - 2:00pm	MCB 1201	Lab
0102	Erin Tran	Seats (Total: 16)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 10:30am - 11:30am	SQH 1117	
	MTuWThF 12:00pm - 2:00pm	MCB 1205	Lab

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI279E **Supplemental Study; Environmental Biology**

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

YS41	Virginia Weeks	Seats (Total: 19)	
	Meets July 8, 2024 - July 26, 2024		
	MTuWThF 9:30am - 12:00pm	HJP 2217	
	TuTh 2:00pm - 4:30pm	HJP 3237	Lab
	Restricted to students in Terp Young Scholars.		

BSCI289 **Off-Campus Internship**

(Perm req)

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

I101	Katerina Thompson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)	
I201	Katerina Thompson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)	

BSCI330 **Cell Biology and Physiology**

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

0101	Caitlin Fox **Meets May 28, 2024 - July 5, 2024** MTuWTh 11:30am - 1:10pm TuWTh 8:30am - 11:20am	Seats (Total: 24) PLS 1130 BPS 0207	 Lab

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI339N **Selected Topics in Biology; Natural History, Ecology and Geology of Australia**

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Contact department for information to register for this course.

BSCI339P **Selected Topics in Biology; The Future of the Brain**

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: C- or better in BSCI330 or NEUR200. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB. Credit only granted for BSCI339P or BSCI356. Overview of the current state of brain research, with a focus on the ideas behind and advances made through large-scale projects, such as t BRAIN Initiative, the Human Brain Project, the Human Connectome Project, etc., in whole-brain imaging and mapping, high-density multisite electrode recording, virtual reality, and optogenetics. Students will build on their knowledge of neuroscience and innovative neurotechnologies, engage in the discussion of challenges neuroscientists are tackling, and identify proposed solutions for reaching a practical and comprehensive understanding of the brain.

WB21	Chan Lin	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	W 11:00am - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BSCI343 **Cellular Mechanisms of Aging and Disease**

Prerequisite: Minimum grade of C- in BSCI330. Credit only granted for: BSCI339I or BSCI343. Formerly: BSCI339I.

Explore how alterations in normal cellular and molecular processes lead to both aging and a variety of non-infectious human diseases currently plaguing our society. Students will read, analyze, and discuss current primary and secondary literature in the field of cell biology and biomedicine.

(Sponsoring Dept: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology category), GENB (Cell Biology/Physiology category), and PHNB.

WB41	Hadiya Woodham	Seats (Total: 32)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

BSCI348J **Special Topics in Cell Biology and Molecular Genetics; Medical Microbiology**

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Prerequisite: BSCI105 (grade of B or better) or BSCI223 or BSCI283. Credit only granted for BSCI424 or BSCI348J. Mechanisms of pathogenesis, detection, prevention and treatment of bacterial, viral and parasitic pathogens of humans.

WB11	Volker Briken	Seats (Total: 12)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

BSCI348M **Special Topics in Cell Biology and Molecular Genetics; Epidemiology of Microbial Pathogens**

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Acceptable towards Biological Sciences areas: MICB and GENB. Prerequisite: BSCI105. Study of infectious bacteria and viruses acting at the population level in humans and animals. Identification of causes and spread of infection.

WB31	Jeffrey Olimpo	Seats (Total: 31)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Microbiology Internship. Opportunity for students to perform research, relating to microbiology in an off-campus laboratory. Permission of Instructor required. 3 credits applicable to MICB specialization area. Click here for more course information: https://go.umd.edu/SqU.

I101	David Straney	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
I201	David Straney	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

BSCI353 **Cellular and Molecular Neuroscience**

Prerequisite: Earning C- or higher in NEUR200 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Cross-listed with: NEUR306. Credit only granted for: NEUR306 or BSCI353.

Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology); GENB (Cell Biology, Development, Physiology); and PHNB. Credit cannot be applied to the requirements of any Neuroscience Major.

WB11	Chan Lin	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	W 11:00am - 12:15pm	ONLINE
	Class time/details on ELMs	ONLINE

BSCI361 **Principles of Ecology**

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).

Basic principles of population, community, and ecosystem ecology. Use of these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

WB11	Marcia Shofner	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Contact department for information to register for this course.

BSCI379M **Cell Biology and Molecular Genetics Department Research; Research in Microbiology**

(Perm req)

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI379P **Cell Biology and Molecular Genetics Department Research; Research in Plant Biology**

(Perm req)

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credit to be determined by the department. A maximum of 8 credits of any version of BSCI389 can be applied to one or more undergraduate degrees. Any research credits completed beyond the first 8 will be included in the total earned credits and factored into the GPA but not applied to any undergraduate degree.

Contact department for information to register for this course.

BSCI399 **Biology Department Research; Biology Department Research**

(Perm req)

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI399H **Biology Department Honors Research**

(Perm req)

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Any combination of 3 credits of BSCI399, BSCI399L, and BSCI399H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Biology department research lab before getting permission to take BSCI399L in the same lab. Students completing at least 4 credits of laboratory research including at least one semester taking BSCI399L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

Contact department for information to register for this course.

BSCI422 **Principles of Immunology**

Prerequisite: BSCI222. Recommended: BSCI330; and (BSCI223 or BSCI283). Restriction: Junior standing or higher.

The immune system in health and disease. Presentation and analysis of the cellular and molecular processes that comprise the immune system.

WB11	Kenneth Frauwirth **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:40pm	Seats (Total: 25) ONLINE

BSCI433 **Biology of Cancer**

Prerequisite: BSCI222 and BSCI330; or permission of CMNS-Biological Sciences UG Program.

Causes and consequences of neoplastic transformations at the biochemical and cellular levels.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: CEBG, GENB, and PHNB.

WB51	Carmen Cantemir-Stone **Meets June 17, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

BSCI437 **General Virology**

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

WB11	Jeffrey DeStefano **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 18) ONLINE

BSCI450 **Mammalian Systems Physiology**

Prerequisite: Minimum grade of C- in BSCI330; and minimum grade of C- in CHEM233 or both CHEM231 and CHEM232. Credit only granted for: BIOL708M, BSCI338L, BSCI440, or BSCI450.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal, and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB.

WB21	Justicia Opoku-Edusei **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

BSOS Behavioral and Social Sciences Summer 2024

BSOS288I **Special Topics in Behavioral and Social Sciences; Social Science Internship Practicum**

(Perm req)

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

I101	Liza Lebrun **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Liza Lebrun **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

BSOS355 **Social Sciences Internship Practicum**

(Perm req)

Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.

BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.

I101	Liza Lebrun **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Liza Lebrun **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

BSOS386 **Experiential Learning**

(Perm req)

Contact department for information to register for this course.

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSST Terrorism Studies Summer 2024

BSST338O **Special Topics in Terrorism Studies; School Shooter and Spree Killers**

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Understanding the costs and consequences of school shooters and spree killer incidents how these bridge terrorism, communication, and criminology with consequences that affect us all. This course looks at the current state of the field with attention to spree killer profiles, research, and response from social science perspectives.

WB11	Michael Egnoto	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

BSST373 **Analyzing Terrorism: Simulations, Wargaming, and Strategies of Security**

Credit only granted for: BSST338J or BSST373. Formerly: BSST338J.

Introduces students to novel, applied methods to study terrorism and security, including simulations, wargaming exercises, and red teaming. This course assumes no prior experience with these methods. Throughout the course, students will complete activities to understand the behavior of militant groups and develop security strategies to counter violent non-state actors.

WB21	Thomas Guarrieri	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

BSST386 **Experiential Learning in Terrorism Studies**

(Perm req)

This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.

I101	Liberty Day	Seats (Total: 30)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

BUDT Decision and Information Technologies — Summer 2024

BUDT753 **Blockchain Technologies and Business Applications**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

Creates a strong business and technical foundation for Blockchain, starting with an in-depth discussion of the business inefficiencies that the Blockchain technology has the potential to address. This is followed by reviewing the computer science fundamentals related to cryptology, distributed computing, and peer-to-peer architectures that Blockchain systems rely on. The course then provides a comprehensive understanding of Bitcoin including its limitations, and the work that has been done to date to address these limitations. Alternate Blockchain implementations such as Ethereum and Hyperledger are discussed with a focus on smart contracts. The course will also cover potential business applications in Finance, Healthcare, Supply Chain, and Arts/Media/Entertainment. Students will be exposed to current research problems and research efforts in progress.

WI71	Tejwansh Anand, James McCoy	Seats (Total: 40)
	Meets July 8, 2024 - August 23, 2024	
	W 2:00pm - 5:40pm	ONLINE
	Class time/details on ELMs	ONLINE

BUDT759 **Independent Study in Decision and Information Technologies**

Independent study for masters students in decision and information technologies.

CP15	Suresh Acharya	Seats (Total: 5)
	Meets May 20, 2024 - August 22, 2024	
	Contact instructor or department for details.	
CP25	Tejwansh Anand	Seats (Total: 5)
	Meets July 8, 2024 - August 18, 2024	
	Contact instructor or department for details.	

BUSI Part-Time MBA Program Summer 2024

BUSI641 **Corporate Finance II**

Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Builds on the concepts and analytic methods covered in Corporate Finance I. Students will learn about the structure of financial markets, the financing and payout choices of large and small corporations, and the role of risk management in the corporation. In particular, the following issues will be addressed: The drivers of shareholder value; Corporate financing alternatives and the design of a company's capital structure; Coordinating investment, financing and payout policies; Corporate Finance Issues for Start-up firms; Key issues in international corporate finance.

BA11	Oya Altinkilic	Seats (Total: 40)
	Meets May 15, 2024 - July 5, 2024	
	W 6:25pm - 10:00pm	Location: TBA
	Contact instructor or department for details.	

DC11	Oya Altinkilic **Meets May 15, 2024 - July 5, 2024** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 50) Location: TBA
GS11	Oya Altinkilic **Meets May 15, 2024 - July 5, 2024** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 40) Location: TBA

BUSI718F **Special Topics in Business; Advanced Financial Modeling & Equity Analysis**

Selected advanced topics in the various fields of graduate study in business.

Students registering for BUSI718F should not register for BUSO758P due to a significant overlap in coursework.

WW21	Joseph Perfetti **Meets July 8, 2024 - August 23, 2024** Tu 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI730 **Marketing Research Methods**

Prerequisite: BUSI650 and BUSI630. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

WW21	Yi Chen **Meets July 8, 2024 - August 23, 2024** M 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI744 **Derivative Securities**

Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Standard types of derivatives contracts are presented, and illustrated as to how they are used in practice. The theory of pricing these contracts is then presented in detail. The use of static and dynamic replication strategies, and the concept of no-arbitrage strategies is illustrated in numerous ways. Standard valuation techniques are covered, and standard formulas are presented. The theory is then applied to develop specific pricing and hedging strategies for various types of derivatives on different underlying assets. The management of the exposure of various risks is covered in detail as well.

WW21	Terrence O'Brien	Seats (Total: 50)
	Meets July 8, 2024 - August 23, 2024	
	W 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI752 **Data Mining and Predictive Analytics**

Prerequisite: BUSI630. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

WW21	Bharti Motwani	Seats (Total: 50)
	Meets July 8, 2024 - August 23, 2024	
	Th 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI758D **Special Topics in Business; Business Decoded**

(Perm req)

Selected advanced topics in the various fields of graduate study in business.

WW11	Paulo Prochno	Seats (Total: 0)
	Meets May 15, 2024 - August 23, 2024	
	Class time/details on ELMs	ONLINE

BUSI758E **Special Topics in Business; Business Decoded**

(Perm req)

Selected advanced topics in the various fields of graduate study in business.

WW11	Paulo Prochno	Seats (Total: 0)
	Meets May 15, 2024 - August 23, 2024	
	Class time/details on ELMs	ONLINE

BUSI758M **Special Topics in Business; Digital Marketing Strategy**

Selected advanced topics in the various fields of graduate study in business.

WW11	Judy Frels **Meets May 15, 2024 - July 5, 2024** Tu 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI758Q **Special Topics in Business; MBA Consulting Practicum**

Selected advanced topics in the various fields of graduate study in business.

BA11	Roy Thomason **Meets May 15, 2024 - August 23, 2024** Th 6:25pm - 10:00pm	Seats (Total: 40) Location: TBA
DC11	Toby Egan **Meets May 15, 2024 - August 23, 2024** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 40) Location: TBA
GS11	Nicole Coomber **Meets May 15, 2024 - August 23, 2024** W 6:25pm - 10:00pm	Seats (Total: 40) Location: TBA

BUSI758R **Special Topics in Business; Ethical Leadership**

Selected advanced topics in the various fields of graduate study in business.

WW11	Jennifer Marr **Meets May 15, 2024 - July 5, 2024** Th 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
WW16	Jennifer Marr **Meets May 15, 2024 - July 5, 2024** Sa 9:00am - 1:15pm Class time/details on ELMs *Meets in person 6/1, 6/15, and 6/29.*	Seats (Total: 35) VMH 1511 ONLINE

BUSI759 **Independent Study in Business**

(Perm req)

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI764 **Business Law for Managers**

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI764 or BUAC721.

Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.

WW26	Gideon Mark	Seats (Total: 50)
	Meets July 8, 2024 - August 23, 2024	
	Sa 9:00am - 1:15pm	VMH 1511
	Class time/details on ELMs	ONLINE
	Meets in person 7/13, 7/27 and 8/10.	

BUSI785 **Project Management in Dynamic Environments**

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

WW11	Joseph Drasin	Seats (Total: 51)
	Meets May 15, 2024 - July 5, 2024	
	M 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE
WW12	Joseph Drasin	Seats (Total: 27)
	Meets May 15, 2024 - July 5, 2024	
	W 6:25pm - 10:00pm	ONLINE

BUSI786 **Technology Management Capstone Action Learning Project**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

This course will function as an experiential practicum to apply the skills and learning outcomes accumulated throughout the Technology Management curriculum toward solving real-world problems and cases. Projects will be chosen and executed in teams, and when possible sponsored by student employers or school partners. Project selection and maturation will receive iterative faculty facilitation.

For students in the Technology Management Certificate program only. In person meetings on 6/1, 6/15, and 6/22.

DC16	Judy Frels, Frank Goertner **Meets May 20, 2024 - July 7, 2024** Sa 9:00am - 5:00pm	Seats (Total: 30) DC C3

BUSI787 **Integrative Capstone**

Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Provide students with an integrative experience to utilize the functional tools amassed in the MBA program and acquire new knowledge in the areas of international business, business ethics and executive/leadership presence, provide students with the opportunity to work with multiple functional areas at a time to drive business growth and utilize cases to address domestic and international challenges, enabling you to sharpen your skills in utilizing several methods for adding economic value when expanding globally. Additionally, students will raise awareness of best practices in building executive/leadership presence, as functional knowledge and business expertise is not enough to ensure successful career progression.

In-person meeting dates are 6/8 and 6/9. Registration for this course ends March 22, 2024

WW16	Judy Frels **Meets May 15, 2024 - July 5, 2024** SaSu 8:30am - 5:30pm	Seats (Total: 0) Location: TBA
WW17	Juan Castillo Bustamante **Meets May 15, 2024 - July 5, 2024** SaSu 8:30am - 5:30pm	Seats (Total: 0) Location: TBA

BUSO Online MBA Program Summer 2024

BUSO703 **Action Learning Project II**

Prerequisite: BUSO702. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

The objective of the Action Learning Project I and II is for teams to identify and solve/dissolve business problems that currently exist in organizations and inthe process, to provide significant value to organizations and their stakeholders. The experience of solving/dissolving business problems will both enablestudents to apply knowledge learned in core courses and to develop the wisdom, skills, and problem-solving capabilities of team members. This course isdesigned to promote independent learning. Faculty members will offer mini-modules on key themes such as organizational support, team dynamics and peerfeedback, but their primary role will be to facilitate the ALP process and serve as consultants to the student teams.

Access to this course will be restricted until teams have been created in your ALP I class.

SO31	Protiti Dastidar **Meets May 15, 2024 - August 23, 2024** M 7:00pm - 8:30pm	Seats (Total: 100) ONLINE
SO32	Protiti Dastidar **Meets May 15, 2024 - August 23, 2024** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 0) ONLINE ONLINE
SO33	Neta Moye **Meets May 15, 2024 - August 23, 2024** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 0) ONLINE ONLINE
SO34	Neta Moye **Meets May 15, 2024 - August 23, 2024** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 0) ONLINE ONLINE

BUSO704 **Ethical Leadership**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA678 or BUSO704.

This course will examine business ethics issues across a variety of business contexts. You will learn toapply a number of ethical theories to business problems, primarily through case studies and discussion.The goal is for you to engage actively with the material and understand the complexity of many ethical dilemmas that businesses and business owners face. Often in ethics there is not one right answer; rather,businesses and individuals must wrestle with ethical principles that may compete and conflict with one another in arriving at a resolution. We will explore conflicts between personal values and organizationalgoals, ethics as part of a business strategy, and various ethical frameworks businesses may use in understanding and implementing ethical approaches to problems.

SO11	Jennifer Marr **Meets May 15, 2024 - July 5, 2024** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO13	Jennifer Marr **Meets May 15, 2024 - July 5, 2024** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

SO14	Jennifer Marr	Seats (Total: 30)
	Meets May 15, 2024 - July 5, 2024	
	Tu 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO705 **Business Communications**

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program.

Develop the ability to communicate with and about data.

SO11	Christine Schaaf	Seats (Total: 32)
	Meets May 15, 2024 - July 5, 2024	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE
SO12	Melissa Lucas	Seats (Total: 32)
	Meets May 15, 2024 - July 5, 2024	
	M 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE
SO13	Melissa Lucas	Seats (Total: 32)
	Meets May 15, 2024 - July 5, 2024	
	Tu 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO713 **Supply Chain Management**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI672, BULM720 or BUSO713.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

SO11	Leland Gardner	Seats (Total: 30)
	Meets July 8, 2024 - August 23, 2024	
	M 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

SO12	Leland Gardner **Meets July 8, 2024 - August 23, 2024** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 31) ONLINE ONLINE
SO13	Humberto Coronado **Meets July 8, 2024 - August 23, 2024** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUSO716 **Decision Modeling**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Many different skills are required in arriving at informed managerial decisions. Among these are analytical and quantitative skills. Decision Modeling is one in a sequence of two courses that seeks to develop these two important skills. More formally, the goals of this course are: to introduce business optimization modeling techniques to aid in complex decision making environments, decision trees to structure strategic decision making problems in an uncertain environment, and Monte-Carlo simulation to help analyze and assess the risk associated with decisions in an uncertain environment. We will demonstrate the use of all techniques in this course in a spreadsheet environment.

SO11	Anna Devlin **Meets July 8, 2024 - August 23, 2024** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 27) ONLINE ONLINE
SO12	Robert Hoffman **Meets July 8, 2024 - August 23, 2024** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 27) ONLINE ONLINE
SO13	Raghu Raghavan **Meets July 8, 2024 - August 23, 2024** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 27) ONLINE ONLINE
SO14	Raghu Raghavan **Meets July 8, 2024 - August 23, 2024** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 27) ONLINE ONLINE

BUSO732 **Managing Digital Business Markets and Platforms**

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI622, BUSM622 or BUSO732.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

SO51	Tejwansh Anand	Seats (Total: 30)
	Meets July 8, 2024 - August 23, 2024	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO741 Consumer Behavior

Prerequisite: BUSM612; or BUSO612; or BUSI650. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK715, BUSM702 or BUSO741.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

SO51	Rosellina Ferraro	Seats (Total: 30)
	Meets July 8, 2024 - August 23, 2024	
	Tu 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO750 Global Trade Logistics

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT773, BULM733 or BUSO750.

Acquaints students with managerial issues in international logistics and transportation, and provides students with an understanding of issues related to import/export management and the global marketplace.

SO51	Jeffrey Mund	Seats (Total: 30)
	Meets July 8, 2024 - August 23, 2024	
	Tu 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO758J Special Topics in Business; Corporate Finance II

Selected advanced topics in the various fields of graduate study in business.

SO11	Ceyed Baiju **Meets May 15, 2024 - July 5, 2024** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE
SO12	Ceyed Baiju **Meets May 15, 2024 - July 5, 2024** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE
SO13	Ceyed Baiju **Meets May 15, 2024 - July 5, 2024** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE
SO14	Ceyed Baiju **Meets May 15, 2024 - July 5, 2024** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUSO758P **Special Topics in Business; Applied Equity Analysis**

Selected advanced topics in the various fields of graduate study in business.

Students registering for BUSO758P should not register for BUSI718F due to a significant overlap in coursework.

SO51	Joseph Perfetti **Meets July 8, 2024 - August 23, 2024** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO759 **Independent Study in Business**

(Perm req)

Independent study for Masters students in Business.

Contact department for information to register for this course.

CBMG Cell Biology & Molecular Genetics Summer 2024

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

(Perm req)

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG799 **Masters Thesis Research**

(Perm req)

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

Doctoral Dissertation Research.

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
0213	Jonathan Dinman **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0220	Wenxia Song **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0260	Heven Sze **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0275	David Mosser **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

CCJS Criminology and Criminal Justice Summer 2024

CCJS100 **Introduction to Criminal Justice**

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0201	Madeline Romm **Meets July 8, 2024 - August 16, 2024** MTuWTh 1:00pm - 2:40pm	Seats (Total: 30) ARC 1101
WB11	Casey Kindall **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

CCJS105 **Introduction to Criminology**

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0201	Michael Lebron **Meets July 8, 2024 - August 16, 2024** MTuWTh 9:00am - 10:40am	Seats (Total: 30) ARC 1103
WB11	Shuhao Zhang **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE
YW41	Gabrielle Wy **Meets July 8, 2024 - July 26, 2024** MTuWThF 10:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 34) ONLINE

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Prerequisite: CCJS100 or CCJS105; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140). Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department.

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

Please note, for Summer Term, restrictions will not apply.

0101	Brett Lacey **Meets May 28, 2024 - July 5, 2024** MTuWTh 11:00am - 12:40pm	Seats (Total: 40) ARC 1101

CCJS225 **Responses to Violence**

What are the dimensions of violence in the United States and worldwide, and how has humanity responded to violence? Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weaknesses of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

WB11	Kyle Dorsey **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Kyle Dorsey **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Brett Lacey **Meets May 28, 2024 - July 5, 2024** MTuWTh 9:00am - 10:40am	Seats (Total: 40) ARC 1101

CCJS325 **Slavery in the Twenty First Century: Combating Human Trafficking**

What is human trafficking and how do we stop it? An introduction to the trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

WB21	Brett Lacey **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS342 **Corrections**

(Perm req)

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.

Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.

Please note, for Summer Term, restrictions will not apply.

WB11	Selena Price **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS345 **Courts and Sentencing**

(Perm req)

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

Please note, for Summer Term, restrictions will not apply.

WB21	Cortney Fisher **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS358G **Special Topics in Study Abroad III; History of the Mafia and Global Crime**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Contact department for information to register for this course.

CCJS386 **Experiential Learning**

(Perm req)

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS398 **Law Enforcement Field Training; Law Enforcement Field Training**

(Perm req)

Supervised, structured and focused field training in law enforcement agencies.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Integrated reading or research under direction and supervision of a faculty member.

Contact department for information to register for this course.

CCJS418J **Seminar in Criminology and Criminal Justice; Immigration & Crime**

(Perm req)

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisites: CCJS100, CCJS105, and CCJS300

WB11	Gabrielle Wy	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CCJS450 **Advanced Juvenile Delinquency**

(Perm req)

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS350 or CCJS450.

Examination of juvenile delinquency in the United States. Nature and extent of juvenile delinquency, historical approaches, sociological and criminological theories and research, social contexts including the institutions of families, schools, and peers, and social responses. Prevention, punishment, and treatment programs, both within and outside of the juvenile justice and criminal justice systems.

WB11	Jessica Morabito	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CCJS454 **Contemporary Criminological Theory**

(Perm req)

Prerequisite: CCJS300 and CCJS105.

Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.

WB21	Toryn Sperry	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CCJS458A **Special Topics in Study Abroad IV; Human Trafficking in Context: Reactions to Human Trafficking in Thailand**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CCJS458B **Special Topics in Study Abroad IV; Human Trafficking in Context: The Vulnerabilities Assosciated with Being a Refugee in Italy**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CCJS458C **Special Topics in Study Abroad IV; Human Trafficking in Context: A Comparative Analysis**

Special topics course taken as part of an approved study abroad program.

Although human trafficking occurs all over the world, the exacerbating factors vary by region and country. This course will offer students an opportunity to idenify and compare the causes of human trafficking in the United States and another country. Students will work with students from a partner university in an international location to better understand human trafficking in that location and how solutions to this global challenge will vary based on location. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

CCJS458F **Special Topics in Study Abroad IV; Human Trafficking in Context: Corruption in Social Justice**

Special topics course taken as part of an approved study abroad program.

Cross-listed with MLAW358I. Credit only granted for CCJS458F or MLAW358I.

Contact department for information to register for this course.

CCJS498R **Selected Topics in Criminology and Criminal Justice; Women and Crime**

(Perm req)

Topics of special interest to advanced undergraduates in criminology and criminal justice. Offered in response to student request and faculty interest.

Prerequisites: CCJS100 and CCJS105

WB21	Cortney Fisher	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CCJS605 **Program Evaluation for Criminal Justice**

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS671 **Technology in Modern Policing**

Leaders in law enforcement must be able to effectively evaluate, deploy, and manage technology projects. This course covers state-of-the-art technologies used in everyday policing, as well as emerging and future technologies. Students evaluate technological solutions to public safety problems from a legal/policy and privacy/optics perspective, from a procurement and budgetary perspective, and from a technical perspective. Students learn the challenges and best practices associated with deploying major technology projects. This course covers the underlying technical aspects of these technologies at a high level, such that students are able to successfully make informed decisions.

PLL1	Nicholas Picerno, Dinesh Patil	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

CCJS699 **Special Criminological Problems**

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS720 **Criminal Justice System Planning: Policy Analysis for Crime Control**

Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.

System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.

Contact department for information to register for this course.

CCJS799 **Master's Thesis Research**
Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Summer 2024

CHBE101 **Introduction to Chemical and Biomolecular Engineering**

(Perm req)

Prerequisite: CHEM135; or students who have taken courses with comparable content may contact the department. Corequisite: MATH141. Restriction: Must be in Engineering: Chemical program; or permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE101 or ENCH215. Formerly: ENCH215.

Introduction to methods of chemical engineering calculations and analysis. Stoichiometric relations, material and energy balances, and behavior of gases, vapors, liquids and solids. Analytical and computer methods.

WB11	Ganesh Sriram	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	MTuW 1:00pm - 3:40pm	ONLINE

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

WB21	Panagiotis Dimitrakopoulos	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	MF 1:30pm - 4:30pm	ONLINE
	Th 1:00pm - 3:00pm	ONLINE

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

WB21	Daphne Fuentevilla	Seats (Total: 40)	
	Meets July 8, 2024 - August 16, 2024		
	TuW 4:30pm - 7:30pm	ONLINE	
	Th 3:30pm - 5:30pm	ONLINE	

CHBE648 **Special Problems in Chemical Engineering**

Research project under the direction of a faculty member.

0212	Jeffery Klauda	Seats (Total: 5)	
	Meets July 8, 2024 - August 16, 2024		
	Contact instructor or department for details.		
0225	Dongxia Liu	Seats (Total: 5)	
	Meets July 8, 2024 - August 16, 2024		
	Contact instructor or department for details.		

CHBE799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

CHBE898 **Pre-Candidacy Research**

0141	Akua Asa-Awuku	Seats (Total: 5)	
	Meets May 28, 2024 - July 5, 2024		
	Contact instructor or department for details.		

CHBE899 **Doctoral Dissertation Research; Chemical Engineering**
Contact department for information to register for this course.

CHEM Chemistry Summer 2024

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

0131	Amanda Schech	Seats (Total: 48)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm	PHY 2214	
	TuTh 9:30am - 10:50am	PHY 2214	Discussion

CHEM132 **General Chemistry I Laboratory**

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Students must pay a $40.00 lab materials fee.

0131	Amanda Schech	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MWF 8:00am - 10:50am	ESJ 1312	Lab
0132	Amanda Schech	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MWF 8:00am - 10:50am	ESJ 1316	Lab

CHEM135 **General Chemistry for Engineers**

Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

0101	Ashley Baxter	Seats (Total: 48)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm	PHY 2106	
	TuTh 9:30am - 10:50am	PHY 2106	Discussion

CHEM231 **Organic Chemistry I**

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

0171	Bonnie Dixon	Seats (Total: 34)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	CHM 1407 CHM 1224	Discussion
0172	Bonnie Dixon	Seats (Total: 34)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	CHM 1407 CHM 1228	Discussion
0173	Bonnie Dixon	Seats (Total: 34)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	CHM 1407 PHY 2124	Discussion
0271	Lenea Stocker	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	CHM 1402 CHM 1224	Discussion
0272	Lenea Stocker	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	CHM 1402 CHM 1228	Discussion

CHEM232 **Organic Chemistry Laboratory I**

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Students must pay a $40.00 Laboratory Materials fee.

0171	Bonnie Dixon	Seats (Total: 18)	
	Meets May 28, 2024 - July 5, 2024		
	MWF 8:00am - 10:50am	CHM 1360	Lab

0172	Bonnie Dixon **Meets May 28, 2024 - July 5, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab
0173	Bonnie Dixon **Meets May 28, 2024 - July 5, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1346	 Lab
0271	Lenea Stocker **Meets July 8, 2024 - August 16, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1360	 Lab
0272	Lenea Stocker **Meets July 8, 2024 - August 16, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab

CHEM241 **Organic Chemistry II**

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

0191	Monique Koppel **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1402 PHY 2213	 Discussion
0192	Monique Koppel **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1402 PHY 2208	 Discussion
0291	Sonia Hirschauer **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 PHY 2213	 Discussion

0292	Sonia Hirschauer **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) CHM 1407 PHY 2208	 Discussion

CHEM242 **Organic Chemistry Laboratory II**

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 Laboratory Materials fee.

0191	Monique Koppel **Meets May 28, 2024 - July 5, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1326	 Lab
0192	Monique Koppel **Meets May 28, 2024 - July 5, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1330	 Lab
0291	Sonia Hirschauer **Meets July 8, 2024 - August 16, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1326	 Lab
0292	Sonia Hirschauer **Meets July 8, 2024 - August 16, 2024** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1330	 Lab

CHEM271 **General Chemistry and Energetics**

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics, thermodynamics and electrochemistry in the context of current chemistry research.

0241	Natalia White	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	MWF 11:00am - 12:20pm	PLS 1130	
	TuTh 9:30am - 10:50am	PLS 1111	Discussion
0242	Natalia White	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	MWF 11:00am - 12:20pm	PLS 1130	
	TuTh 9:30am - 10:50am	PLS 1113	Discussion

CHEM272 **General Bioanalytical Chemistry Laboratory**

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

0241	Natalia White	Seats (Total: 24)	
	Meets July 8, 2024 - August 16, 2024		
	TuTh 11:00am - 12:20pm	PLS 1130	
	MWF 8:00am - 10:50am	ESJ 2312	Lab
0242	Natalia White	Seats (Total: 24)	
	Meets July 8, 2024 - August 16, 2024		
	TuTh 11:00am - 12:20pm	PLS 1130	
	MWF 8:00am - 10:50am	ESJ 2316	Lab

CHEM399 **Introduction to Chemical Research**

(Perm req)

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research**

(Perm req)

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM699 **Special Problems in Chemistry**

Laboratory experience in a research environment.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**
Contact department for information to register for this course.

CHEM898 **Pre-Candidacy Research**
Contact department for information to register for this course.

CHEM899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

CHIN Chinese Summer 2024

CHIN101 **Intensive Elementary Chinese I**

Prerequisite: Must have attained appropriate World Language Placement Test (WLPT) score.

Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.

WB11	Guiling Hu	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CHIN102 **Elementary Spoken Chinese**

Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN103. Additional information: Must be taken in conjunction with CHIN103.

Continued study of grammatical patterns and vocabulary buildup with particular emphasis on conversation.

WB21	Guiling Hu	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CHIN103 **Elementary Written Chinese**

Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN102. Additional information: Must be taken in conjunction with CHIN102.

Continued study of grammatical patterns and buildup of vocabulary with particular emphasis on reading and writing.

WB21	Guiling Hu	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169C **Special Topics in Study Abroad I; Introduction to Chinese Language I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169D **Special Topics in Study Abroad I; Introduction to Chinese Lanuage II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

Prerequisite: CHIN102; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

CHIN201 and 202 are co-requisites. Students must take both together.

Contact department for information to register for this course.

CHIN202 **Intermediate Written Chinese I**

Prerequisite: CHIN103; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

CHIN201 and 202 are co-requisites. Students must take both together.

Contact department for information to register for this course.

CHIN203 **Intermediate Spoken Chinese II**

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

CHIN203 and 204 are co-requisites. Students must take both together.

Contact department for information to register for this course.

CHIN204 **Intermediate Written Chinese II**

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN203. Additional information: Must be taken in conjunction with CHIN203.

Continuation of CHIN202.

CHIN203 and 204 are co-requisites. Students must take both together.

Contact department for information to register for this course.

CHIN269A **Special Topics in Study Abroad II; Exploring Confucius' China**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269J **Special Topics in Study Abroad II; Intermediate Chinese I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269K **Special Topics in Study Abroad II; Intermediate Chinese II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon: Society, Politics and Business**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269V **Special Topics in Study Abroad II; Chinese Calligraphy I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269Z **Special Topics in Study Abroad II; Modern Chinese Culture and Society**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

Contact department for information to register for this course.

CHIN302 **Advanced Chinese II**

Prerequisite: CHIN301; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Continuation of CHIN301.

Contact department for information to register for this course.

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHPH Chemical Physics Summer 2024

CHPH718D **Special Topics in Chemical Physics; Sodium Spinor Bose-Einstein Condensation**

A discussion of current research problems in chemical physics.

0149	Paul Lett	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

CHPH799 **Master's Thesis Research**
Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**
Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

CHSE Counseling, Higher Education, and Special Education Summer 2024

CHSE205 **Disability: From Stigma and Sideshow to Mainstream and Main Street**

Credit only granted for: EDSP289I or CHSE205. Formerly: EDSP289I.

Explores the cultural, historical, educational, and medical roots of difference among human beings and examines the impact of cultural and technological changes on individuals traditionally identified as disabled. The course is designed to develop a broad understanding of the concept of "disability" and the emerging technologies that shape contemporary understanding of this phenomenon and the lives of those considered disabled.

WB21	Jerae Kelly	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CINE Cinema and Media Studies Summer 2024

CINE245 **Film Form and Culture**

Cross-listed with: ENGL245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

WB21	Diana Proenza	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CINE319B **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Disney without Disney: The Afterlives of Children's Media Icons**

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

Crosslisted with SLLC368A. Credit only granted for CINE319B, FILM319B, or SLLC368A.

WB21	Paul Cote	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CINE352 **The Baddest Decade: The 1970s in American Film and American History**

Cross-listed with: HIST304. Credit only granted for: CINE352, FILM352 or HIST304. Formerly: FILM352.

The history of the United States and of its cinema in the 1970s.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

CINE359C **Special Topics in Genres/Auteurs/Cinema Movements; Disaster Cinema**

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Crosslisted with SLLC368K. Credit only granted for CINE359C, FILM359C, or SLLC368K. Exploration of disaster films in Hollywood and global cinema during the past century. The course will examine disaster films, such as Godzilla, King Kong, and Contagion, as a form of cinema's critical encounter with war, colonialism, and scientific development.

WB41	Daniel Richter	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

CINE359K **Special Topics in Genres/Auteurs/Cinema Movements; The Horror Film**

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

In this asynchronous course, we will examine the transnational history of the horror genre in cinema through the 20th and 21st centuries. We will explore the defining features of the genre and interrogate the status of horror film as one of the most enduring and popular forms of filmmaking. We will also look at horror films as social forms capable of intercepting and giving shape to the collective desires, hopes, and anxieties that mark specific historical periods. Cross-listed with SLLC368O. Credit only granted for CINE359K or SLLC678O.

WB31	Mauro Resmini	Seats (Total: 30)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

CINE359T **Special Topics in Genres/Auteurs/Cinema Movements; The Suspense Thriller in World Cinema**

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Through screenings, readings, and discussions, this online course offers students the opportunity to examine major suspense thriller films in world cinema. We will screen films from different countries in a spectrum of sub-genres (such as detective thrillers, psychological thrillers, spy thrillers, police thrillers, science-fiction thrillers) in order to understand current artistic, critical, ideological, and theoretical debates in cinema and media studies.

WB21	Jason Kuo	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CINE429T **Special Topics in National/International Cinemas; Middle Eastern Cinema: Comedy, Horror, Politics**

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

A close look at transregional genres in contemporary Middle Eastern cinemas, with the focus on comedy, horror, and political cinema. Taught in English. Taught online, asynchronous format. Cross-listed with ARAB499T. Credit only granted for ARAB499T, CINE429T, or FILM429T.

WB51	Valerie Anishchenkova	Seats (Total: 25)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CINE459M **Special Topics in Genres/Auteurs/Cinema Movements; Science Fiction Cinema: Masterworks**

Special topics in genres, auteurs, and cinema movements.

This online course will screen and study the most important masterworks in science fiction cinema. Themes and representative works may include, but not limited to, space fantasy, futuristic world, alien intrusions, time travel, disasters, mental powers, biological sciences and mutations. We will also cover key concepts of Media Language, Audience, Institution, and Representation of Gender and Race. Crosslisted with SLLC468M. Credit only granted for CINE459M, FILM459M, or SLLC468M.

WB11	Jason Kuo	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CLAS Classics Summer 2024

CLAS170 **Ancient Myths and Modern Lives**

Cross-listed with: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

What are myths and why do we tell them? What powers do myths have? We will tackle these questions by looking at the enduring and fascinating myths from ancient Greece and Rome. In addition to studying how they shaped ancient societies, we will also look at their modern influence and reflect upon the power that myths still hold in our contemporary world. Taught in English.

0201	Talia Chicherio	Seats (Total: 19)
	Meets July 8, 2024 - August 16, 2024	
	MTuWTh 10:00am - 11:40am	TWS 1106
WB11	Edward Parker	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
WB21	Avi Kapach	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CLAS171 **Classical Myths in Europe**

The role which Classical Myths have played in the arts, architecture and politics of a major European city. This will only be offered through the study abroad program.

Contact department for information to register for this course.

CLAS499P **Independent Study in Classical Languages and Literatures; Classical Myths in Europe**
Contact department for information to register for this course.

CLFS Chemical and Life Sciences Summer 2024

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact Dr. Marcia Shofner (mclfs@umd.edu) to establish a mentor; and then contact exst@umd.edu to register. Golden ID students are not eligible for this course.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact exst@umd.edu to register. Golden ID students are not eligible for this course.

Contact department for information to register for this course.

CLFS609E **Special Topics; Immunology**

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.

PLC1	Kenneth Frauwirth	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.	

CLFS609J **Special Topics; Evolutionary Biology**

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.

PLC1	Magdalene Ngeve	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.	

CLFS619C **Special Topics in Chemistry; Chemical Biology**

Topics of current interest and special importance.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.

PLC1	Marjan Alaghmand	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.	

CLFS725 **Experimental Design**

Credit only granted for: LFSC710, LFSC719, or LFSC725. Formerly: LFSC719.

Experimental design and statistics for science teachers that emphasizes the underlying structure of data and how this affects the quality and reliability of experiments. Examines the nature of data, the methods for designing rigorous experiments, important experimental design formats, and the relationships between data structure and analysis. Course work focuses on the design and analysis of orginal experiments for a series of research problems.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.

Click here for program information.

PLC1	Bretton Kent	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.	

CMSC Computer Science Summer 2024

CMSC125 **Introduction to Computing**

Prerequisite: Must have completed or be concurrently enrolled in MATH115 or higher. Restriction: Must not be in the Computer Science program; and must not have completed any courses from CMSC131-499; and must not have completed BMGT302, IMDM127 or INST126. Credit only granted for: IMDM127 or CMSC125.

Introduces you to the computing field as a whole. You will gain skills used across the spectrum of computing majors and learn about the great variety of routes into the various areas of study and employment in technological fields.

YS41	Elias Gonzalez	Seats (Total: 32)
	Meets July 8, 2024 - July 26, 2024	
	MTuWThF 9:00am - 12:00pm	TWS 0201
	Restricted to students in Terp Young Scholars.	

CMSC131 **Object-Oriented Programming I**

Corequisite: MATH140. Credit only granted for: CMSC131, CMSC133 or CMSC141.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

This course will be entirely online, but exams will be held in-person. Exams are scheduled for Wednesday, June 26, Wednesday, July 17, and Friday, August 2 at 6PM. You must attend in-person on these dates, so please plan accordingly.

WB11	Pedram Sadeghian	Seats (Total: 100)
	Meets May 28, 2024 - August 2, 2024	
	MTuWThF 6:00pm - 7:20pm	ONLINE

CMSC132 **Object-Oriented Programming II**

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam; or must have earned a satisfactory score on the departmental placement exam; and minimum grade of C- in MATH140. Credit only granted for: CMSC132 or CMSC142.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

This course will be entirely online, but exams will be held in-person. Exams are scheduled for Thursday, June 27, Thursday, July 25, and Friday, August 2 at 11am. You must attend in-person on these dates, so please plan accordingly.

WB11	Fawzi Emad	Seats (Total: 100)
	Meets May 28, 2024 - August 2, 2024	
	Class time/details on ELMs	ONLINE

CMSC216 **Introduction to Computer Systems**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission of CMSC - Computer Science department.

Introduction to the interaction between user programs and the operating system/hardware. Major topics include C programming, introductory systems programming, and assembly language. Other concepts covered include UNIX, machine data representation, thread management, optimization, and virtual memory. Programming is done in the Linux Environment.

0101	Nelson Padua-Perez	Seats (Total: 145)
	Meets May 28, 2024 - August 2, 2024	
	MTuWThF 10:00am - 11:20am	EGR 1202

CMSC250 **Discrete Structures**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permissions of CMSC - Computer Science department.

Fundamental mathematical concepts related to computer science, including finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Maksym Morawski	Seats (Total: 120)
	Meets May 28, 2024 - August 2, 2024	
	MTuWThF 1:00pm - 2:20pm	BPS 1250

CMSC298A **Special Topics in Computer Science**

(Perm req)

A course designed to allow a lower level student to pursue a specialized topic or project.

Contact department for information to register for this course.

CMSC320 **Introduction to Data Science**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC320, DATA320 or STAT426.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

WB11	Fardina Alam	Seats (Total: 95)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 11:30am - 12:50pm	ONLINE

CMSC330 **Organization of Programming Languages**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in the Computer Science Minor program; or must be in Engineering: Computer program; and Permission of CMSC - Computer Science department.

A study of programming languages, including their syntax, semantics, and implementation. Several different models of languages are discussed, including dynamic, scripting (e.g., Ruby, Python) functional (e.g., OCaml, Haskell, Scheme), and memory safe systems programming (e.g., Rust). Explores language features such as formal syntax, scoping and binding of variables, higher-order programming, typing, and type polymorphism. Introduces finite automata, context free grammar, parsing, lambda calculus, and basics of security attacks and software security.

0101	Cliff Bakalian	Seats (Total: 85)
	Meets May 28, 2024 - July 19, 2024	
	MTuWThF 10:00am - 11:10am	BPS 1243

CMSC335 **Web Application Development with JavaScript**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science Department. Credit only granted for: CMSC389N or CMSC335. Formerly: CMSC389N.

Provides an introduction to modern ways of developing Web Applications/Services using JavaScript for both front-end and back-end. The course covers topics on fundamental JavaScript language constructs, server-side JavaScript, back-end data persistence, and client-side JavaScript to build Web Applications that interact with Web services and back-end databases.

Questions about the course should be directed to Andrej Rasevic at arasevic@cs.umd.edu

WB11	Alan Sussman	Seats (Total: 85)
	Meets May 28, 2024 - July 19, 2024	
	Class time/details on ELMs	ONLINE

CMSC351 **Algorithms**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission from the CMSC - Computer Science department.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

WB21	Justin Wyss-Gallifent	Seats (Total: 175)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

CMSC411 **Computer Systems Architecture**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Ilchul Yoon	Seats (Total: 48)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 11:00am - 12:20pm	PHY 1201

CMSC421 **Introduction to Artificial Intelligence**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Introduces a range of ideas and methods in AI, varying semester to semester but chosen largely from: automated heuristic search, planning, games, knowledge representation, logical and statistical inference, learning, natural language processing, vision, robotics, cognitive modeling, and intelligent agents. Programming projects will help students obtain a hands-on feel for various topics.

WB21	Mohammad Nayeem Teli	Seats (Total: 85)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This course will be entirely online, but exams will be held in-person. The mid-term will be held on Friday, July 26 from 9:30-10:45am and the final will be held on Friday, August 16 from 9:30-10:45am. Please plan accordingly.	

CMSC422 **Introduction to Machine Learning**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and permission of CMNS-Computer Science department.

Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.

WB11	Mohammad Nayeem Teli	Seats (Total: 85)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This course will be entirely online, but exams will be held in-person. The mid-term will be held on Friday, June 14 from 9:30-10:45am and the final will be held on Friday, July 5 from 9:30-10:45am. Please plan accordingly.	

CMSC425 **Game Programming**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351. Restriction: Permission of CMNS-Computer Science department.

An introduction to the principles and practice of computer game programming and design. This includes an introduction to game hardware and systems, the principles of game design, object and terrain modeling, game physics, artificial intelligence for games, networking for games, rendering and animation, and aural rendering. Course topics are reinforced through the design and implementation of a working computer game.

0101	Stevens Miller	Seats (Total: 48)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 12:30pm - 1:50pm	AVW 3241

CMSC430 **Introduction to Compilers**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.

WB11	Anwar Mamat	Seats (Total: 85)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

CMSC436 **Programming Handheld Systems**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.

Course will be based on the Android platform. (No Android hardware is required -- students can use simulators.)

0101	Herve Franceschi	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 10:00am - 11:20am	BPS 1236
	MWF 10:00am - 11:20am	ONLINE

CMSC451 **Design and Analysis of Computer Algorithms**

(Perm req)

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include graph algorithms, basic algorithm design paradigms (such as greedy algorithms, divide-and-conquer, and dynamic programming), network flows, NP-completeness, and other selected topics in algorithms.

0201	Emily Kaplitz	Seats (Total: 75)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 10:00am - 11:20am	ANS 0408
	Class time/details on ELMs	ONLINE

CMSC460 **Computational Methods**

(Perm req)

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

WB11	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Stefan Doboszczak **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE

CMSC475 **Combinatorics and Graph Theory**

(Perm req)

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340). And permission of CMNS-Computer Science department; or permission of CMNS-Mathematics department. Cross-listed with MATH475 .

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

WB21	Todd Rowland **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE

CMSC498A **Selected Topics in Computer Science**

(Perm req)

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC499A **Independent Undergraduate Research**

(Perm req)

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC798 **Master's Non-Thesis Research**

(Perm req)

Contact department for information to register for this course.

CMSC799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

(Perm req)

Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

COMM Communication Summer 2024

COMM107 **Oral Communication: Principles and Practices**

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

WB11	Seyeon Park **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Jana Sabri **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Felicity Dogbatse **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB14	Xinyi Song **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Jeonghyun Kim **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Siqiao Ao **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Andrew Lowe Mohammed **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

COMM130 **Professional Communication and Writing**

Restriction: Must be in the Communication major.

Designed to enhance the clarity and grace of students' writing. Students will acquire knowledge of writing based on principles of style and grammar as well as argument and organizational structure across a diversity of professional writing contexts. Students will also engage in peer review of one another's writing.

WB21	Skye De Saint Felix **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

COMM200X **Critical Thinking and Speaking**

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

Contact department for information to register for this course.

COMM201 **Introduction to Public Relations**

Prerequisite: Must have completed or be concurrently enrolled in COMM130. Restriction: Must be in the Communication major.

Basic concepts and principles of public relations. Roles in organizations and society; history; skills and practices of public relations; theories and models of effective and ethical public relations.

WB21	Heather Epkins **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *Restriction: Restricted to COMM majors only.*	Seats (Total: 30) ONLINE

COMM250 **Introduction to Communication Inquiry**

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

WB11	Skye De Saint Felix **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

COMM288 **Communication Internship**

(Perm req)

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

I101	Julie Gowin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 50)
I102	Julie Gowin **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 75)
I201	Julie Gowin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 50)

COMM301 **Rhetorical Theories**

Prerequisite: COMM130, COMM250; and one course from STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one course from COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM301 or COMM401.

Explores the idea of rhetoric, from antiquity to digitality. Rhetoric, as an art of moving bodies, is central to democratic self-governance: only through persuading each other can we develop a shared vision of a just and desirable future. This course tracks the genesis of rhetorical theory in the ancient world, 20th-century struggles against fascist rhetoric, and contemporary extensions of rhetoric in digital media ecologies.

Restriction: Restricted to COMM majors only.

WB11	Janna Soeder	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

COMM304 **Communication Research Literacy**

Prerequisite: Must have completed the Communication gateway requirements (COMM250; and one of STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one of COMM107, COMM200 or COMM230). Must have completed or be concurrently enrolled in COMM130. Restriction: Must be in the Communication program.

Explores the different research traditions in the Communication discipline. This "literacy" course will develop students' ability to locate and fully comprehend Communication research and to understand how that research is conducted, reported, analyzed, and critiqued in Communication literature.

WB21	Carina Zelaya	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM306 **Rhetorical Methods in Communication**

Prerequisite: COMM130 and COMM304. Restriction: Must be in the Communication major.

Equips students with skills for conducting research using rhetorical-critical methods. Such methods are crucial for scholars studying all kinds of public rhetoric: speeches, popular culture, photojournalism, digital media, public monuments, laws, and more. They are also instrumental for citizens engaging with elected officials, other citizens, and democratic institutions, as well as professionals who seek to create and understand persuasive discourse. This course will equip you with critical interpretive skills important to your work as a scholar, citizen, and professional.

WB21	Fielding Montgomery	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM324 **Communication and Gender**

Explores how communication shapes constructions of gender, sex, sexuality and other identity markers. Topics include issues of oppression, identity, and power and social, political, and economic situations and examines how these issues impact our daily lives.

WB11	Emma Newton	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

WB21	Crystal Stone	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM330 **Argumentation and Public Policy**

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

WB21	Divine Aboagye	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM360 **The Rhetoric of Black America**

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

WB11	Daviana Fraser	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This course will be accessible for asynchronous learners.	
WB21	Alisa Hardy	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM369B **Special Topics in Study Abroad III; British Documentary Tradition**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

COMM369O **Special Topics in Study Abroad III; Organizational Communication in Italy**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

COMM370 **Mediated Communication**

Prerequisite: COMM250. Restriction: Junior standing or higher.

Analysis and critique of structure, performance, content, effects, and future of mediated communication.

WB11	Briana Barner	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

COMM377 **Digital Media in London**

Credit only granted for: COMM369D or COMM377. Formerly: COMM369D.

Provides students with skills in production practice while also incorporating theory and cultural studies. Students are challenged to understand societal problems around economy, race, gender, identity and power and to extend that exploration by building projects that utilize high demand skills in the digital communication and documentary professions. Students will write, record voice over, interview people, and build projects with compelling narrative structure. The projects will be an important component of their portfolio when applying to graduate school or their first professional efforts post-graduation. Classroom discussions will contain balance between practical instruction and critical discussion built around racial, social, and economic structures and systems.

Contact department for information to register for this course.

COMM382 **Essentials of Intercultural Communication**

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

WB11	Umisha Kc **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

COMM386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

I101	Julie Gowin **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 75)
I102	Julie Gowin **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 75)
I1Z1	Leah Waks **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)

I1Z2	Raimonda Nuredini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I1Z3	Raimonda Nuredini **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I202	Julie Gowin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 75)
I2Z1	Leah Waks **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I2Z2	Raimonda Nuredini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)

COMM388 **Communication Practicum**

(Perm req)

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM390 **Health Communication**

Credit only granted for: COMM390 or COMM398E. Formerly: COMM398E.

Designed to introduce students to the academic and practical fields of health communication. It blends theoretical concepts and practical concerns that impact upon health communication processes. To be specific, this course extensively covers influential theories and models of behavior change as well as cutting-edge research on health communication interventions or campaigns, exposing students to authoritative work done in both areas. Students in this class will also learn about the process of planning a comprehensive health communication campaign and have the opportunity to work in groups to develop their own campaign plans addressing an urgent health problem.

WB21	Ayodeji Dapherede-Otusanya	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

COMM399 **Honors Thesis**

(Perm req)

Contact department for information to register for this course.

COMM426 **Conflict Management**

Recommended: COMM425 and COMM250.

Role of communication in managing conflict processes.

WB21	Lauren Edelstein	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Th 4:00pm - 6:30pm	ONLINE
	Class time/details on ELMs	ONLINE
	Course will only meet synchronously on July 11, 25, and August 8.	

COMM449B **Special Topics in Digital Communication; Communication and Social Media**

Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.

This course will explore the connections between communication and social media. Students will explore not only the business ?or industry side of digital communication, but also the interpersonal and collaborative side important for inhabiting and contributing to continually evolving digital spaces of all sizes. Students can expect a hands-on, project-based approach that covers topics such as social media ethics, advocacy, management, and above all, social media communication.

WB11	Lamia Zia	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

COMM482 **Intercultural Communication**

The major variables of communication in an intercultural context: cultural, racial and national differences; stereotypes; values; cultural assumptions; and verbal and nonverbal channels.

Contact department for information to register for this course.

COMM488I **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

WB11	Delight Agboada **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

COMM489 **Topical Research; Topical Research**

(Perm req)

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM498J **Seminar; Strategic Communication**

Present-day communication research.

WB11	Nana Kwame Osei Fordjour **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

COMM798 **Independent Study**

(Perm req)

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798F **Independent Study; English Fluency**

An individual course designed for intensive study or research of problems in communication.

0101	Mollie Kaufer, Shawn Parry-Giles **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 15)

COMM798G **Independent Study; Editing in English Writing**

An individual course designed for intensive study or research of problems in communication.

0101	Mollie Kaufer, Shawn Parry-Giles **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 15)

COMM799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

Contact department for information to register for this course.

CPSP College Park Scholars Program Summer 2024

CPSP339P **Advanced Practicum: Internship**

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

I101	Kelly Brower	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

CPSP379C **Advanced Practicum: Study Abroad; International and Multicultural Perspectives in Education**

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP379K **Advanced Practicum: Study Abroad; London: Cultural Capital**

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP388T **Advanced Special Topics in College Park Scholars; Conservation and Indigenous People**

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

DANC Dance Summer 2024

DANC698 **Independent Study in Dance**

Directed independent study in theoretical topics.

I201	Crystal Davis	Seats (Total: 1)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

DATA Data Science and Analytics Summer 2024

DATA100 **Elementary Statistics and Probability**

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any STAT course with a prerequisite of MATH141. Cross-listed with: STAT100. Credit only granted for: DATA100 or STAT100.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

WB11	Matthew Griffin **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 42) ONLINE
WB12	Ran Li **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE
WB21	Mohammed Rahman **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE

DATA110 **Applications of R for Data Science**

Prerequisite: DATA100, STAT100, or MATH135; or any 400-level STAT course. Cross-listed with: STAT110. Credit only granted for: STAT110 or DATA110.

Intended to prepare students for subsequent courses requiring computation with R, providing powerful and easy to use tools for statistical data analysis. Covers basics of R and R Studio including file handling, data simulation, graphical displays, vector and function operations, probability distributions, and inferential techniques for data analysis.

WB21	Susan Mazzullo **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

DATA320 **Introduction to Data Science**

Prerequisite: DATA110 or DATA120; and DATA200 and DATA250; or by permission of the DATA Program Director. Restriction: Must not be a Computer Science major. Jointly offered with: CMSC320. Credit only granted for: CMSC320 or DATA320.

An introduction to data science i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

WB11	Fardina Alam **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:30am - 12:50pm	Seats (Total: 5) ONLINE

DATA400 **Applied Probability and Statistics I**

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Cross-listed with: STAT400. Credit only granted for: DATA400, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

WB11	Mestiyage Gunatilleka **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 45) ONLINE
WB12	Ishfaaq Mohammed Imtiyas **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 45) ONLINE
WB13	Hatice Sahinoglu **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE
WB21	James Kwon **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE

DATA612 **Deep Learning**

Prerequisite: DATA603 or MSML603. Cross-listed with: MSML612. Credit only granted for: DATA612 or MSML612.

Provides an introduction to the construction and use of deep neural networks: models that are composed of several layers of nonlinear processing. The class will focus on the main features in deep neural nets structures. Specific topics include backpropagation and its importance to reduce the computational cost of the training of the neural nets, various coding tools available and how they use parallelization, and convolutional neural networks. Additional topics may include autoencoders, variational autoencoders, convolutional neural networks, recurrent and recursive neural networks, generative adversarial networks, and attention-based models. The concepts introduced will be illustrated by examples of applications chosen among various classification/clustering questions, computer vision, natural language processing.

PWS1	Yuntao Liu	Seats (Total: 50)
	Meets May 28, 2024 - August 16, 2024	
	Tu 6:00pm - 9:30pm	ONLINE
	Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.	

ECON Economics Summer 2024

The Department of Economics enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

ECON200 **Principles of Microeconomics**

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

WB11	Nabil Ryandiansyah	Seats (Total: 60)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
WB21	Luis Jaramillo	Seats (Total: 60)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ECON201 **Principles of Macroeconomics**

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

WB11	Hariharan Jayashankar **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Luying Yang **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 60) ONLINE

ECON305 **Intermediate Macroeconomic Theory and Policy**

Prerequisite: Minimum grade of C- in ECON200 and ECON201; and 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

WB11	Siqin Ding **Meets May 28, 2024 - July 5, 2024** MTuWTh 5:30pm - 7:55pm	Seats (Total: 50) ONLINE
WB21	Tyler Pike **Meets July 8, 2024 - August 16, 2024** MTuWTh 2:00pm - 4:05pm	Seats (Total: 50) ONLINE

ECON306 **Intermediate Microeconomic Theory & Policy**

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201; and 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

WB11	Andrea Vilchez **Meets May 28, 2024 - July 5, 2024** MTuWTh 2:00pm - 4:25pm	Seats (Total: 50) ONLINE
WB21	William Leroy **Meets July 8, 2024 - August 16, 2024** MTuWTh 7:00pm - 9:05pm	Seats (Total: 50) ONLINE

ECON325 **Intermediate Macroeconomic Analysis**

Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

WB11	Haoran Wang	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	MTuWTh 5:30pm - 7:55pm	ONLINE

ECON326 **Intermediate Microeconomic Analysis**

Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, or AREC326.

Analysis of economic decision-making by individuals and firms, the resulting market outcomes, and applications to real-world problems. Emphasis on analytical logic and theoretical rigor. Topics covered include consumer preferences and utility maximization, perfect competition and market power, uncertainty and risk, externalities, and asymmetric information.

WB21	Nobuyuki Furuta	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	MTuWTh 5:30pm - 7:35pm	ONLINE

ECON327 **Behavioral Economics**

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Integrating the insights of psychology into economics. Analysis of the ways in which individuals make decisions that systematically depart from the so-called "standard model" of homo economicus, which assumes perfect rationality, perfect selfishness, and perfect willpower. Investigating the implications of the major findings of behavioral economics for policymakers.

WB11	Quang Pham	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	MW 6:00pm - 9:10pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON330 **Money and Banking**

Prerequisite: Minimum grade of C- in ECON200 and ECON201.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

WB21	Giuliano Simoncelli	Seats (Total: 55)
	Meets July 8, 2024 - August 16, 2024	
	MW 6:00pm - 9:10pm	ONLINE

ECON340 **International Economics**

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.

Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.

Contact department for information to register for this course.

ECON386 **Experiential Learning**

(Perm req)

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Student and internship eligibility requirements, along with the ECON386 application, can be found at: http://ter.ps/ECON386.

Contact department for information to register for this course.

ECON399 **Independent Study in Economics**

(Perm req)

Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Prerequisite: six hours of upper division economics courses.

Contact department for information to register for this course.

ECON414 **Game Theory**

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

WB11	Shuting He	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 6:00pm - 9:10pm	ONLINE
	Class time/details on ELMs	ONLINE
	The final exam for this course will be held online Friday July 5th 5:00pm-7:00pm.	
WB21	Chaehyun Oh	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 6:00pm - 9:10pm	ONLINE

ECON418C **Economic Development of Selected Areas; China**

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Prerequisites: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Credit only granted for: ECON418C or AREC447. An introductory survey course of economic development in China with emphasis on understanding the process of economic reform in mainland China since 1978.

0301	Jing Cai	Seats (Total: 35)
	Meets May 28, 2024 - June 14, 2024	
	MTuWThF 9:30am - 12:30pm	ATL 2428

ECON426 **Economics of Cost-Benefit Analysis**

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Study of how to use cost benefit analysis and other similar tools of applied microeconomics to conduct policy analyses. Cost-benefit analysis is an empirical method of identifying an optimal choice from a set of policy alternatives, where optimal is defined in terms of economic efficiency. Real world examples are addressed, so that students understand limitations of the methods and also interactions of economic analysis with political and administrative processes.

WB21	Qian Wang	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 5:30pm - 8:40pm	ONLINE

ECON455 **Economics of Education Policy**

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON468E or ECON455. Formerly: ECON468E.

Examines the role that government plays in providing and financing education. Analyzes why people invest in education. Considers the effects of education on long-term social and economic outcomes, the behavior of institutions that produce education, and how to design and implement public policies affecting the level and distribution of educational resources. Uses microeconomic models and empirical findings to analyze current issues in education policy.

WB11	Sebastian Montano Correa	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 5:30pm - 8:40pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON461 **Economics of Regulation and Antitrust**

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Considers government intervention in economic activity of three types: antitrust policy, regulation of natural monopolies, and health safety regulation. Covers theoretical models, real-world policy applications, and empirical studies relevant to the impact of regulation.

WB11	Wantian Huang	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	MW 5:30pm - 8:40pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON470 **Labor Economics: Theory and Evidence**

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, STAT400, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: ECON470 or ECON471.

Analysis of labor markets in theory and the real world. Topics include labor supply, labor demand, human capital, performance incentives, unemployment, discrimination, and immigration. Students will develop an understanding of how formal economic research is used to analyze U.S. labor markets and how research influences policy debates.

0201	Cameron Conrad	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	MW 5:30pm - 8:40pm	TWS 0205

ECON642 **Topics in Applied Macroeconomics**

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PR01	Hunter Monroe	Seats (Total: 23)	
	Meets May 28, 2024 - August 16, 2024		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Hunter Monroe	Seats (Total: 6)	
	Meets May 28, 2024 - August 16, 2024		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON644 **Empirical Analysis II: Introduction to Economic Models**

Prerequisite: ECON643.

An introduction to econometric methods with applications to public policy analysis. Primary focus on application and interpretation of multiple regression analysis.

PR01	Maksim Belenkiy	Seats (Total: 23)	
	Meets May 28, 2024 - August 16, 2024		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Maksim Belenkiy	Seats (Total: 3)	
	Meets May 28, 2024 - August 16, 2024		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON671 **Economics of Health Care**

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in MS Applied Economics program; or with permission from the program director. Jointly offered with: ECON465. Credit only granted for: ECON671 or ECON465.

An examination of the structure, conduct and performance of the health care market, including a study of physician services, the pharmaceutical industry, the hospital market and health insurance. Students will analyze markets for health care and related products by examining the incentives and constraints for various participants, including individuals, family units, doctors, pharmaceutical companies, hospitals, and insurance providers. Extensive use of quantitative and analytic economic tools with special emphasis on regulatory responses to market imperfections.

PR01	Samuel Kleiner	Seats (Total: 23)
	Meets May 28, 2024 - August 16, 2024	
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.	
PREM	Samuel Kleiner	Seats (Total: 6)
	Meets May 28, 2024 - August 16, 2024	
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.	

ECON672 **Program Analysis and Evaluation**

Prerequisite: ECON641 and ECON645.

Students study the tools used to evaluate the effectiveness of public policies. All evaluations have weaknesses, and some have more weaknesses than others. You will learn how to distinguish high from low quality evaluations. We will discuss the basic economics and econometrics of program evaluation, focusing on the application of methods used for causal inference and cost-benefit analyses in public policy contexts. We will examine published evaluation research with the intent of showing how the research does or does not lead to clear conclusions regarding program performance.

PR01	Thomas Hegland	Seats (Total: 23)
	Meets May 28, 2024 - August 16, 2024	
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.	

PREM	Thomas Hegland	Seats (Total: 3)	
	Meets May 28, 2024 - August 16, 2024		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON677 **International Trade and Applications**

Prerequisite: ECON641 and ECON644. Restriction: Must be in MS Applied Economics program; or with permission from the program director.

A mix of theory and empirical work. Students will analyze the causes and consequences of international trade. The course will cover a set of conceptual tools that are useful for understanding "globalization" and the usage of these tools to address interesting and important questions about how countries, firms, and workers respond to international trade.

PR01	Cristina Tello-Trillo	Seats (Total: 23)	
	Meets May 28, 2024 - August 16, 2024		
	W 6:45pm - 9:30pm Class time/details on ELMs	ONLINE ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly online, with weekly synchronous online meetings that occur within the noted timeframe. However, students are required to attend in-person proctored exams (midterm and final exams). The exams are the only in-person component of the course and will be administered at 1400 16th Street, NW in Washington, DC.		
PREM	Cristina Tello-Trillo	Seats (Total: 3)	
	Meets May 28, 2024 - August 16, 2024		
	W 6:45pm - 9:30pm Class time/details on ELMs	ONLINE ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. Golden ID students are not eligible for this section. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON698 **Selected Topics in Economics**

0142	John Shea	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ECON799 **Master's Thesis Research**
Contact department for information to register for this course.

ECON898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services — Summer 2024

EDCP108E **College and Career Advancement: Concepts and Skills**

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Restricted to Academic Achievement Program Students.

CP02	Sharon Vanwright, Melanie Glover	Seats (Total: 130)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

EDCP298Z **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP386 **Experiential Learning**

(Perm req)

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP611 **Career Development Theory and Programs**

Research and theory related to career and educational decisions; programs of related information and other activities in career decision.

0101	Marja Humphrey	Seats (Total: 20)
	Meets June 4, 2024 - June 20, 2024	
	TuWTh 10:00am - 2:30pm	SQH 1123
	Class time/details on ELMs	ONLINE

EDCP632 **Cognitive Assessment**

Restriction: Must be in the School Psychology program; or permission of EDUC-Counseling, Higher Education and Special Education department.

Assessment of cognitive functioning of children and adolescents in reference to school learning and behavior problems. Administering, scoring and interpreting cognitive assessment instruments commonly used in school systems.

0101	Megan Vaganek	Seats (Total: 15)
	Meets May 28, 2024 - August 2, 2024	
	MW 5:30pm - 8:30pm	Location: TBA
	Course will meet in Seneca 1102M.	

EDCP635 **School Consultation I**

Restriction: Must be in the School Counseling program; or must be in the School Psychology program; or permission of instructor.

Theory and practice of consultation services in the school setting. Understanding of school culture. Introduction to problem solving model of case consultation for assessment and remediation of learning and behavior problems in the classroom. Practicum experience.

0401	Ileana Gonzalez	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	TuWTh 10:00am - 2:30pm	TWS 0221

EDCP654 **History of Psychological Science**

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP654 or EDCP789F. Formerly: EDCP789F.

This course, intended for doctoral students in psychology, explores the historical development of psychological science and practice. Students will examine and discuss the original writings of persons involved in the making of psychology and of historians and others who have described and interpreted historical developments in psychology-as well as historical developments that influenced the making of psychology. The focus will be on understanding how the social, cultural, political and legal context of the times; developments in psychology and other sciences; technological advances; the evolution of the educational and scientific infrastructure; funding; and the growth in numbers of persons involved in psychological science and mental health have influenced psychology and been influenced by psychology. In other words, we will examine how psychological ideas about human nature, mental life, and behavior influence social and political events and arrangements as well as how social and political contexts influence psychological thinking and research.

WB11	Annie Goldthrite	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 4:30pm - 8:30pm	ONLINE

EDCP789 **Advanced Topics in Counseling and Personnel Services**
Contact department for information to register for this course.

EDCP789C **Advanced Topics in Counseling and Personnel Services; Student Activism in American Higher Education**

WB51	Marinel Martinez-Benyarko	Seats (Total: 10)
	Meets June 17, 2024 - July 5, 2024	
	MW 4:00pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE

EDCP789R **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

0101	Romy Stancofski	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	MW 1:30pm - 4:30pm	EDU 3236

EDCP798 **Special Problems in Counseling and Personnel Services**

(Perm req)

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798D **Special Problems in Counseling and Personnel Services; Data Analysis and Scholarly Writing**

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

WB21	Christopher Travers **Meets July 8, 2024 - August 16, 2024** Th 4:00pm - 6:45pm Class time/details on ELMs	Seats (Total: 12) ONLINE ONLINE	

EDCP799 **Master's Thesis Research**

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP888 **Apprenticeship in Counseling and Personnel Services**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

(Perm req)

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Restricted to CSP students.

WB11	Marsha Guenzler-Stevens, Kristan Skendall **Meets May 28, 2024 - July 5, 2024** Tu 4:30pm - 7:15pm Class time/details on ELMs	Seats (Total: 7) ONLINE ONLINE	 Lab

EDCP889 **Internship in Counseling and Personnel Services**

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP889C **Internship in Counseling and Personnel Services**

(Perm req)

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

I101	Jioni Lewis **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
I102	Cixin Wang **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
I201	Jioni Lewis **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
I202	Cixin Wang **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

EDCP898 **Pre-Candidacy Research**
Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Summer 2024

EDHD230 **Human Development and Societal Institutions**

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

WB21	Joshua Jaffe **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDHD231 **Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated**

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

WB21	Riley Sims **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDHD306 **Research Methods in Human Development**

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

WB11	Marieh Arnett	Seats (Total: 30)
	Meets May 28, 2024 - July 19, 2024	
	Class time/details on ELMs	ONLINE

EDHD310 **Your Brain on Education: The Neuroscience of Learning and Development**

Prerequisite: PSYC100.

Investigation linking research in the brain science of learning and development, including the neural basis of academic skills, to achievement, disability, and broader applications to classroom learning. This course will focus on areas of education including language (spoken and written), conceptual change, numerical/quantitative processing, and social cognition as well as burgeoning areas of neuroscientific research in general cognitive processes such as attention, memory, and executive processing. These topics will be discussed with respect to typical and atypical development with some focus on developmental disabilities including autism, specific language impairment, reading and math impairment, and attention deficit disorders among others. This course will focus on both the theoretical perspectives and pragmatic issues of how evidence regarding brain development can or may be translated into useful or misleading information for educators, professionals, and parents/guardians of our children.

WB31	Donald Bolger	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

EDHD320 **Human Development Through the Life Span**

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

WB11	Elise Kaufman	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

EDHD390 **Career Paths and Internship Preparation in Human Development**

Restriction: Must be in the Human Development major.

Prepares degree candidates in Human Development for career paths in the field including initial job seeking skills, knowledge necessary for entry into various professions and preparation for the program internship requirement

WB11	Olga Walker	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

EDHD400 **Introduction to Gerontology**

Multidisciplinary survey of the processes of aging. Physiological changes, cultural forces, and self-processes that bear on quality of life in later years. Field study of programs, institutions for elderly, individual elders, their families and care providers.

WB21	Jannah Fusenig	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

EDHD411 **Child Growth and Development**

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

WB21	Olga Walker	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

EDHD413 **Adolescent Development**

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

Contact department for information to register for this course.

EDHD475 **Human Development Honors Thesis Preparation Course**

Prerequisite: EDHD474. Restriction: Must be in the Human Development Honors program.

This is an individual instruction course with the thesis faculty advisor. In this course, students will work towards writing and completing their honors thesis, which will include a review of relevant literature, the rationale for the research project, research questions, methods for data collection, analysis plan, results, and a discussion of the findings. Faculty advisors will communicate the goals of the major surrounding issues of diversity, equity, and inclusion.

WB11	Melanie Killen	Seats (Total: 5)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

EDHD489 **Field Experiences in Human Development**

(Perm req)

Planned field experience (internship or research-based activities) related to Human Development. Credit not to be granted for experiences accrued prior to registration.

I105	Olga Walker **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I106	Lucas Butler **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

EDHD889 **Practicum in Human Development**

Field experience in applied human development at a professional level of competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

Registration required to 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed — Summer 2024

EDHI338P **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Germany: Propaganda and Graphic Design**

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI488A **Special Topics in Education Policy and Administration; Education for Global Peace**

Special and intensive treatment of current topics and issues in education policy and administration.

WB11	Amber Webb **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

EDHI488N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI488V **Special Topics in Education Policy and Administration; Contemplative Education**

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 20)	
	Meets June 10, 2024 - June 20, 2024		
	MWTh 4:00pm - 8:30pm	EDU 1121	
	Class time/details on ELMs	ONLINE	Lab
	Meets on June 10, 12, 13, 17, 18, & 20, 4:00pm - 8:30pm.		

EDHI489 **Field Experiences in Education**

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI672 **Modes of Inquiry in Education Research**

Restriction: Must be in a program in the Counseling, Higher Education, or Special Education department; or permission of the instructor. Credit only granted for: EDHI672 or EDPS672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

This course contains a Blackboard/ELMS component.

WB41	Steven Klees	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	MWTh 3:00pm - 7:15pm	ONLINE	

EDHI679 **Master's Seminar**

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI681 **Education for Global Peace**

Credit only granted for: EDHI681, EDPL681, or EDPS681. Formerly: EDPL681.

This course will examine how education can address the threats of violence and wars. It prepares students to teach about peace, nonviolence, and conflict resolution, and also to analyze and implement changes in school and society to contribute to peace and non-violence.

WB11	Amber Webb	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req)

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI788 **Special Topics in Education Policy and Administration**

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788C **Special Topics in Education Policy and Administration; U.S. Perspectives on International Education and Development**

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Deepa Srikantaiah	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 5:00pm - 8:00pm	EDU 3236	
	Class time/details on ELMs	ONLINE	

EDHI788E **Special Topics in Education Policy and Administration; Applied Inquiry in Higher Education**

Special and intensive treatment of current topics and issues in education policy and administration.

WB61	Jeongeun Kim	Seats (Total: 15)	
	Meets July 29, 2024 - August 9, 2024		
	MWTh 4:00pm - 8:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Lab

EDHI788N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788T **Special Topics in Education Policy and Administration; International Education & Cultural Exchange: Policies & Practice Education**

Special and intensive treatment of current topics and issues in education policy and administration.

International Education & Cultural Exchange will survey key aspects of international education exchange administration, policy, and practice. The course is designed to introduce students to various arenas of the international education field with an emphasis on the internationalization efforts of American universities, current trends in the field of international higher education exchange, and the university's role in academic diplomacy efforts. This semester the course will be offered in a Global Classrooms format that will allow students to engage with international scholars and practitioners through a guest speaker series. Guest speakers will provide students with insights into the varied ways international education work is carried out around the globe and expand students' international higher education networks. This is a Global Classrooms Connections class, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, international collaboration.

0301	Taylor Woodman	Seats (Total: 15)	
	Meets May 28, 2024 - June 14, 2024		
	MWTh 12:00pm - 1:30pm	EDU 2101	
	Class time/details on ELMs	ONLINE	

EDHI788V **Special Topics in Education Policy and Administration; Contemplative Education**

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 20)	
	Meets June 10, 2024 - June 20, 2024		
	MWTh 4:00pm - 8:30pm	EDU 1121	
	Class time/details on ELMs	ONLINE	Lab
	Meets on June 10, 12, 13, 17, 18, & 20, 4:00pm - 8:30pm.		

EDHI789 **Doctoral Practicum in Administration and Supervision**

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

0101	Sharon Fries-Britt	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0201	Sharon Fries-Britt	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

EDHI798 **Special Problems in Education**

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDHI889 **Internship in Education**

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**
Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation — Summer 2024

EDMS451 **Introduction to Educational Statistics**

Restriction: Sophomore standing or higher.

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

WB11	Marieh Arnett	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

EDMS645 **Quantitative Research Methods I**

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

WB21	Weimeng Wang	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

EDSP Education, Special — Summer 2024

EDSP210 **Introduction to Special Education**

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Students examine historical foundations of special education, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals.

WB11	Tori Page-Voth	Seats (Total: 25)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

WB11	Carolyn Fink	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

EDSP376 **Fundamentals of Sign Language**

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

Contact department or instructor for details.

WB11	Elizabeth Martinez	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

EDSP470 **Introduction to Special Education**

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

Open to all students except undergraduate special education majors

WB11	Tori Page-Voth	Seats (Total: 25)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

EDSP476 **Communicating with Sign Language**

Prerequisite: EDSP376. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Intermediate level receptive/expressive skills in American Sign Language. Aspects of the culture, history, and research perspectives of the deaf community.

WB22	Michael Dunham	Seats (Total: 20)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

EDSP600 Issues and Trends in Educating Individuals with Disabilities

Prerequisite: 9 credits in EDSP courses. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Examines research and practice relevant to the education of individuals with disabilities.

PUA1	Carolyn Fink	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUA2	Kelly Piantedosi	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUA3	Kelly Piantedosi	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

PUA4	Tori Page-Voth	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

EDSP606 **Advanced Study in Inclusive Practices in The Schools**

Jointly offered with EDSP450. Credit only granted for: EDSP450, EDSP606 , or EDSP788P. Formerly: EDSP788P.

Educational practices regarding inclusive education in the schools for students with and without disabilities.

PUA1	Barbara Gruber	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUA2	Barbara Gruber	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUA3	Barbara Gruber	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

EDSP611 **Teaching Students with Disabilities in Elementary Classrooms**

Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP608, EDSP611, EDSP401 or EDSP499F.

This course is designed for elementary education majors to prepare for teaching students with disabilities in elementary classrooms. The course examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). The course then provides information on Universal Design for Learning (UDL) principles, instructional suggestions to include students with disabilities in the general classroom, co-teaching and methods for integrating technology and assistive technology to benefit all students.

PUK2	Jennifer McCatharn	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	

EDSP613 **Principles and Practices in Positive Behavior interventions and Classroom Supports**

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Jointly offered with: EDSP413. Credit only granted for: EDSP413 or EDSP613.

Use of positive behavior supports to promote both classwide and individual student behavior skills through function-based behavior assessment, establishing classroom expectations, and examining common misbehaviors that often result in learning loss.

PUA1	Jerae Kelly	Seats (Total: 2)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUA2	Leah Wall	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

PUA3	Jerae Kelly	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	
PUE1	Jerae Kelly	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Special Education (M.Ed.), Autism Spectrum Disorders and related Developmental Delays and Disabilities to register. Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.	
PUK1	Jerae Kelly	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	
PUR1	Jerae Kelly	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Special Education: Autism Online (M.Ed.). Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.	

EDSP624 **Assessment in Early Childhood Special Education**

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Jointly offered with EDSP42 3. Credit only granted for: EDSP423 or EDSP624.

Assessment procedures for infants and young children with disabilities, birth through age eight.

PUD1	Jennifer Amilivia	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Special Education (M.Ed.), Early Childhood Ages Birth-Age 5 to register. Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.	

PUR1	Jennifer Amilivia	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Special Education: Autism Online (M.Ed.). Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.	

EDSP625 **Evidence Based Practices for Individuals with Significant Disabilities**

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Examine and apply empirical research aligned to current trends and areas of investigation in the field of students with significant support needs.

PUD1	Agnesanne Danehey	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Special Education (M.Ed.), Early Childhood Ages Birth-Age 5 to register. Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.	

EDSP798 **Special Problems in Special Education**

(Perm req)

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDSP888 **Apprenticeship in Special Education**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888L **Apprenticeship in Special Education; Leadership Proposal Project**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

PZC1	Cameron Butler	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
	Must be in the Special Education Leadership (Ed.D.), Germany to register.	

EDSP889 **Internship in Special Education**

(Perm req)

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**
Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

EDUC Education Summer 2024

EDUC401 **International and Multicultural Perspectives in Education**

Restriction: By permission of the College of Education and the Education Abroad Office . Credit only granted for: EDUC498I or EDUC401. Formerly: EDUC498I. Additional information: This is a 3-week living-learning study abroad experience in the Netherlands, Germany and Belgium. The course is offered through the Education Abroad office. Prospective students must complete the MYEA application. Myea.umd.edu.

Comparison of historical changes and current challenges, and how culture, diversity and tolerance in the US and Netherlands impacts education systems. Experiential visits to historical sites, educational institutions and notable landmarks, with a critical reflection on similarities, differences and intersections of culture, diversity, tolerance and change.

Contact department for information to register for this course.

EDUC640 **Introduction to Educational Leadership**

Credit only granted for: EDHI640 or EDUC640. Formerly: EDHI640.

The focus of this course is the analysis of the role of education administrators/leaders in the social, political, and legal contexts of schools. Also examines the role of leadership in school improvement.

PUM1	LaTonya Williams	Seats (Total: 25)
	Meets May 28, 2024 - July 17, 2024	
	W 5:00pm - 8:15pm	ONLINE
	Must be in School Improvement Leadership PBC to register.	

EDUC698I **Advanced Topics in Education; International and Multicultural Perspectives in Education**

Arranged study on specific topics in education.

Contact department for information to register for this course.

EDUC701 **Applied Research and Data Based Decision Making for School Leaders**

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC701 or EDHI701. Formerly: EDHI701.

This course focuses on understanding school system data including student assessments, teacher and administrator evaluations and other program data. Ed.D. students will learn to evaluate the technical characteristics and implications for use of such data as well as how to design instruments to collect needed data.

PXH1	Drew Fagan	Seats (Total: 20)	
	Meets May 28, 2024 - June 27, 2024		
	TuTh 5:00pm - 8:00pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in School System Leadership (Ed.D.), TESOL to register.		

EDUC702 **Applied Research Design for Education Leaders**

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC702 or EDHI702. Formerly: EDHI 702.

Emphasizes quantitative and qualitative methodologies to investigate a range of educational problems. Designed for EdD doctoral students.

PXH1	Drew Fagan	Seats (Total: 20)
	Meets July 1, 2024 - July 18, 2024	
	TuWTh 9:00am - 1:15pm	Location: TBA
	Must be in School System Leadership (Ed.D.), TESOL to register.	

EDUC703 **Conducting Library Research for Dissertations**

Restriction: Permission of EDUC-College of Education; and must be enrolled in EdD in School System Leadership.

Course is designed to provide students in the Ed.D. doctoral program in School System Leadership with the skills necessary to conduct library research in preparation for developing the literature review for the Capstone.

TLPL EdD Outreach program. Registration is restricted to program participants.

PXH2	Margaret Peterson	Seats (Total: 20)	
	Meets May 28, 2024 - June 27, 2024		
	MTu 5:00pm - 8:00pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in School System Leadership (Ed.D.), TESOL to register.		

EDUC704 **Introduction to Writing the Dissertation in Practice**

Restriction: Permission of EDUC-College of Education and Must be in EdD School System Leadership program.

This course is designed to provide students in the Ed.D. program with specific strategies and skills needed to complete their Dissertation of Practice. Skills include constructing a problem statement and developing a cohesive argument for a proposed solution.

TLPL EdD Outreach program. Registration is restricted to program participants.

PXH2	Margaret Peterson	Seats (Total: 20)	
	Meets May 28, 2024 - June 27, 2024		
	WTh 5:00pm - 8:00pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in School System Leadership (Ed.D.), TESOL to register.		

EDUC767 **Seminar on School District Leadership**

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC767 or EDHI767. Formerly: EDHI767.

Examination of theory and research related to school district leadership with focus on improvement sciences. Course uses improvement science model to understand organizational, political, community, instructional problems of practice.

PUG3	Douglas Anthony	Seats (Total: 50)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	Must be in School System Leadership (Ed.D.) to register.		

EDUC829 **Doctoral Capstone**

The completion of a doctoral capstone is required for all professional practice doctoral students, allowing demonstration of excellence in professional practice in the field of education leadership. The topic, activities, and outcomes related to the doctoral capstone must be approved by the doctoral advisor and capstone committee and presented and defended by the student.

Contact department for information to register for this course.

EDUC888 **Applied Apprenticeship in Education**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

PXG1	Pamela Shetley	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	F 4:00pm - 9:00pm Sa 8:30am - 4:00pm	ONLINE Location: TBA
	Class meets at Laurel College Center on 6/1, 6/8, 6/15, and 6/22 Must be in School System Leadership (Ed.D.) to register.	

EDUC888T **Applied Apprenticeship in Education**

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

PXG1	Jean Snell, Segun Eubanks	Seats (Total: 20)
	Meets May 28, 2024 - July 7, 2024	
	F 4:00pm - 9:00pm Sa 8:30am - 4:00pm	ONLINE Location: TBA
	Class meets at Laurel College Center on 6/1, 6/8, 6/15, and 6/22 Must be in School System Leadership (Ed.D.) to register.	

EDUC899 **Dissertation of Practice Research; Doctoral Dissertation Research**

Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.

Contact department for information to register for this course.

ENAE Engineering, Aerospace Summer 2024

ENAE202 **Computing Fundamentals for Engineers**

(Perm req)

Corequisite: MATH141. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

WB21	Kenneth Hart	Seats (Total: 55)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWF 10:30am - 11:50am	ONLINE	
	Th 10:00am - 12:00pm	ONLINE	Lab

ENAE283 **Introduction to Aerospace Systems**

(Perm req)

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

WB11	Benjamin Silbaugh	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 4:30pm - 5:50pm	ONLINE

ENAE311 **Compressible Aerodynamics**

Prerequisite: PHYS271, (MATH240 or MATH461), PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

WB21	Ashish Nedungadi	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	MWF 4:00pm - 6:15pm	ONLINE

ENAE324 **Aerospace Structures**

Prerequisite: ENES220. Restriction: Must be in Engineering: Aerospace program.

Analysis of torsion, beam bending, plate bending, buckling and their application to aerospace.

WB21	Benjamin Silbaugh	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 2:00pm - 3:40pm	ONLINE

ENAE398H **Honors Research Project**

Planned sequence of steps in aerospace honors research in which students take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

0102	Ray Sedwick **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0126	Derek Paley **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0201	Ray Sedwick **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0226	Derek Paley **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)

ENAE423 **Vibration and Aeroelasticity**

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

WB21	Benjamin Silbaugh **Meets July 8, 2024 - August 16, 2024** MTuWThF 6:30pm - 7:50pm	Seats (Total: 25) ONLINE

ENAE432 **Control of Aerospace Systems**

Prerequisite: Minimum grade of C- in ENAE301 and ENAE283. Restriction: Junior standing or higher; and must be in Engineering: Aerospace program.

An introduction to the feedback control of dynamic systems. Laplace transforms and transfer function techniques; frequency response and Bode diagrams. Stability analysis via root locus and Nyquist techniques. Performance specifications in time and frequency domains, and design of compensation strategies to meet performance goals.

WB21	Robert Sanner **Meets July 8, 2024 - August 16, 2024** MTuWThF 12:30pm - 1:50pm	Seats (Total: 35) ONLINE

ENAE441 **Space Navigation and Guidance**

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

WB11	Lina Castano	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 6:30pm - 7:50pm	ONLINE

ENAE457 **Space Propulsion and Power**

Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.

WB11	Luis Bravo Robles	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	MWF 4:00pm - 6:15pm	ONLINE

ENAE499 **Elective Research; Individual Instruction**

(Perm req)

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE799 **Master's Thesis Research**
Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENCE Engineering, Civil Summer 2024

ENCE201 **Engineering Information Processing**

(Perm req)

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

WB11	Peter Chang	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	MTh 7:30pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

Prerequisites and restrictions do not apply during the summer term.

WB11	Qingbin Cui	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	MTh 7:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE423 **Project Planning, Estimating & Scheduling**

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor. And permission of ENGR-Civil & Environmental Engineering department.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

Prerequisites and restrictions do not apply during the summer term.

WB11	Kenneth O'Connell	Seats (Total: 50)		
	Meets May 28, 2024 - August 16, 2024			
	Tu 4:00pm - 5:30pm	ONLINE		
	Class time/details on ELMs	ONLINE	Discussion	

ENCE489 **Special Problems in Civil Engineering**

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489G **Special Problems in Civil Engineering; Sustainability and Infrastructure**

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489I **Special Problems in Civil Engineering; Sustainable Green Infrastructure for the Urban Environment: Italy**

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE623 **Introduction to Advanced Scheduling**

Prerequisite: ENCE423 or ENCE662. Credit only granted for: ENCE623 or ENCE688S.

A Combination of lecture and hands-on use of software to develop advanced knowledge and skills necessary to master advanced scheduling techniques for project management and control will be used. No software purchase is necessary.

PM01	Kenneth O'Connell	Seats (Total: 25)		
	Meets May 28, 2024 - August 16, 2024			
	Tu 6:00pm - 7:30pm	ONLINE		
	Class time/details on ELMs	ONLINE	Discussion	

ENCE625 **Project Administration**

Principles of project administration procedures from the viewpoint of a resident project manager or project engineer on a construction or engineering project. The course specifically addresses the project administration responsibilities of the project manager or project engineer in the engineering, design, or construction industries. Students with a background in the private sector or the government sector will benefit. The course takes a project team approach for improved job efficiency, outlining a project team operation in which the office project administrator delegates to the greatest possible extent all those project administrative functions that can be done more efficiently in the field. The class also addresses the responsibilities and risks that a project administrative manager is likely to encounter. The course is suitable for students, engineering and design professionals, project managers, experienced contract administrators, and owners interested in the special administrative problems of engineering or construction.

Class has weekly videoconferencing.

PM01	Neil Schulman	Seats (Total: 20)	
	Meets May 30, 2024 - July 5, 2024		
	TuTh 1:00pm - 2:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENCE661 **Project Cost Accounting and Finance**

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

Video conference meets Monday at 7:00pm and Tuesday at 3:30pm.

PM01	James Myers	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

ENCE688 **Advanced Topics in Civil Engineering**

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Contact department for information to register for this course.

ENCE689 **Seminar**
Contact department for information to register for this course.

ENCE799 **Master's Thesis Research**
Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENCO Engineering, Cooperative Education — Summer 2024

ENCO098 **Co-op/Internship Work Experience**

(Perm req)

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

CP20	Lizzy Solovey, Veronica Perrigan	Seats (Total: 300)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

ENEE Electrical & Computer Engineering — Summer 2024

ENEE150 **Intermediate Programming Concepts for Engineers**

(Perm req)

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program.

Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.

WB11	Mamadou Wade	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 2:00pm - 3:20pm	ONLINE

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credit only granted for: ENEE200 or ENES200.

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

WB11	Wesley Lawson **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 18) ONLINE	
WB21	Wesley Lawson **Meets July 8, 2024 - August 16, 2024** MTuWThF 6:00pm - 7:20pm	Seats (Total: 18) ONLINE	

ENEE205 **Electric Circuits**

(Perm req)

Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246 or ENEE290. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Wesley Lawson **Meets May 28, 2024 - July 19, 2024** MTuWTh 12:30pm - 1:50pm TuTh 8:00am - 10:50am	Seats (Total: 16) EGR 1110 AVW 1356	 Lab

ENEE244 **Digital Logic Design**

(Perm req)

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

WB11	Manoj Franklin **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 30) ONLINE

ENEE322 **Signal and System Theory**

(Perm req)

Prerequisite: Minimum grade of C- in MATH246 or ENEE290; and minimum grade of C- in ENEE222. Restriction: Permission of ENGR-Electrical & Computer Engineering department. Must be in the following program (Engineering: Computer). Credit only granted for: ENEE322 or ENEE323.

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

WB11	Danilo Romero **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 45) ONLINE

ENEE324 **Engineering Probability**

(Perm req)

Prerequisite: Minimum grade of C- in MATH246 and ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: DATA400, STAT400 or ENEE324. Additional information: Electrical Engineering majors may NOT substitute STAT400 for ENEE324.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

WB11	Manoj Franklin **Meets May 28, 2024 - July 5, 2024** MTuWThF 1:00pm - 2:20pm	Seats (Total: 30) ONLINE

ENEE350 **Computer Organization**

(Perm req)

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only.

WB11	Manoj Franklin	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:45am	ONLINE

ENEE382 **Electromagnetics**

(Perm req)

Prerequisite: Minimum of C- or better in ENEE205, MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in the Electrical Engineering program. Credit only granted for: ENEE380 or ENEE382; ENEE381 or ENEE382.

Theory and tools needed to solve electromagnetic problems and understand how electromagnetic waves propagate and interact with materials. Fields and potentials. Maxwell's equations and wave propagation. Reflection and transmission. Transmission lines. Antennas and radiation.

WB11	Wesley Lawson	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 5:00pm - 6:50pm	ONLINE

ENEE411 **Advanced Analog and Digital Electronics**

(Perm req)

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department.

Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.

WB11	Danilo Romero	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 1:00pm - 2:20pm	ONLINE

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Contact department for information to register for this course.

ENEE499L **Senior Projects in Electrical and Computer Engineering**

(Perm req)

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req)

Provide training in education for senior PhD students who contemplate an academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Contact department for information to register for this course.

ENES Engineering Science Summer 2024

ENES102 **Mechanics I**

(Perm req)

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

Non-engineering students and non-UMD students must submit a Keystone Program Permission to Enroll form for approval to register for this course.

WB11	Kevin Calabro	Seats (Total: 75)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	MW 1:00pm - 3:00pm	ONLINE	Discussion
	Examinations will be given from 1pm - 3pm EST on Monday, June 17, 2024 and Wednesday, July 03, 2024. Students arerequired to take the examinations in-person at the University of Maryland or at an approved off-site test proctoring center. Contact the department at keystone@umd.edu for additional details.		

ENES106 **Achieving Success in Mathematics**

(Perm req)

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete introductory mathematics courses.

Restricted to students in the Summer Bridge Program.

CP01	Kendall Williams	Seats (Total: 40)	
	Meets July 1, 2024 - August 2, 2024		
	MTuWThF 9:00am - 11:30am	EGR 1104	

ENES107 **Achieving College Excellence**

(Perm req)

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete the introductory chemistry course for engineering students. Course will also include strategies for a successful first year experience.

Restricted to students in the Summer Bridge Program.

CP01	Jeanea Dunbar	Seats (Total: 40)	
	Meets July 1, 2024 - August 2, 2024		
	MTuWThF 1:00pm - 4:30pm	EGR 0135	

ENES200 **Technology and Consequences: Engineering, Ethics and Humanity**

Credit only granted for: ENEE200 or ENES200.

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

WB11	Christine Alexander	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 2:00pm - 4:00pm	ONLINE	
	WF 2:00pm - 3:45pm	ONLINE	Discussion

ENES220 **Mechanics II**

(Perm req)

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

Non-engineering students and non-UMD students must submit a Keystone Program Permission to Enroll form for approval to register for this course.

WB21	Thomas Beigel	Seats (Total: 45)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	MTuWTh 12:00pm - 2:20pm	ONLINE	Discussion
	Examinations will be given from 12pm - 2:20pm EST on Monday, July 22, 2024, Monday, August 05, and Thursday, August 15, 2024. Students are required to take the examinations in-person at the University of Maryland or at an approved off-site test proctoring center. Contact the department at keystone@umd.edu for additional details.		

ENES221 **Dynamics**

(Perm req)

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

Non-engineering students and non-UMD students must submit a Keystone Program Permission to Enroll form for approval to register for this course.

WB11	Patrick McAvoy	Seats (Total: 45)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	TuTh 11:00am - 1:00pm	ONLINE	Discussion
	Examinations will be given from 11am - 1pm EST on Tuesday, June 18, 2024 and Wednesday, July 03, 2024. Students arerequired to take the examinations in-person at the University of Maryland or at an approved off-site test proctoring center. Contact the department at keystone@umd.edu for additional details.		

ENES232 **Thermodynamics**

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

Non-engineering students and non-UMD students must submit a Keystone Program Permission to Enroll form for approval to register for this course.

0101	Paul Anderson	Seats (Total: 45)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWTh 10:00am - 12:20pm	BPS 0283	

ENES250 **Why Do Things Fail?**

Credit only granted for: HONR288O or ENES250. Formerly: HONR288O.

Why did the Silver Bridge between Ohio and West Virginia collapse on Christmas Eve, 1967? What caused the top of an Aloha Airlines flight to rupture, creating a convertible airplane? How do these kinds of massive structural damage occur, and how might we prevent them? This course will introduce students to topics of stress and strain and their importance in determining the safety and reliability of engineering structures. Some of the major structural failures worldwide will be identified and researched as to the circumstances leading up to the failures. Reasons for failures will be investigated and are expected to include engineering, social, political, ethical, and economic explanations. Other possible failures to be researched and analyzed would be the collapse of a walkway in Kansas City, the failure of the Tacoma Narrows Bridge in Washington, the collapse of a bridge on Interstate 95 in Connecticut, and the collapse of the Twin Towers in New York after 911.

040Y	Aris Cleanthous **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm	Seats (Total: 5) JMP 1116
YS41	Aris Cleanthous **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 28) JMP 1116

ENES317 **Introduction to Leadership in Engineering, Science, and Technology**

Restriction: Must be in the Minor in Global Engineering Leadership(#EN09). Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.

Develop a comprehensive overview and introduction to leadership and organizational development. Students will reflect on their own leadership experiences, develop a strong foundational knowledge of leadership theory, and advance their capacities in effectively leading teams. Students will connect leadership theory to practice by engaging in case study analysis and critique leadership practices enacted within engineering and technology settings. Students will complete self-assessments to better understand their own leadership strengths and refine their approaches to leadership by incorporating theories covered in this course.

WB11	Darren Pierre **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 35) ONLINE

ENES458A **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Assessment**

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Ghana

Contact department for information to register for this course.

ENES458C **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Monitoring**

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES458I **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Implementation**

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES460 **Fundamentals of Technology Start-Up Ventures**

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461, SMLP470 or HLMN470. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

For the Summer Session, all undergraduates are invited to enroll as restrictions are not applicable.

WB31	James Green	Seats (Total: 75)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

ENES462 **Marketing High-Technology Products and Innovations**

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Examines the opportunities and challenges of marketing high-technology products in turbulent environments requiring rapid decision making with incomplete information. Explores how innovations are introduced at frequent intervals, research-and-development spending is vital, and there are high mortality rates for both products and businesses.

For the Summer Session, all undergraduates are invited to enroll as restrictions are not applicable.

WB51	Olufunlola Koiki	Seats (Total: 100)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ENES472 **Leading Global Teams and Engaging Across Cultures in Business, Engineering, and Technology**

Restriction: Sophomore standing or higher; must be a minor in Global Engineering Leadership (#EN09), Global Poverty (#AG06), Global Terrorism Studies (#BS07), or International Development and Conflict Management (#BS02). Credit only granted for: ENES472, SLLC471, or SLLC473. Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.

Develop global leadership capacities and an understanding of the cultural aspects pertaining to industry and international business. In a globalized world, the ability to work, lead and communicate in culturally diverse settings has become a core component to leadership. Through real-world examples, research, and simulations, students will increase their self-awareness and understanding of culture and how culture influences attitudes, behaviors, and practices at the individual, organizational, or societal levels. Students will develop the skills necessary to navigate, negotiate, and lead cross-cultural engagements and teams. The course content is relevant and applicable to anyone interested in developing cross-cultural leadership competencies and cultivating a global mindset.

WB21	Darren Pierre	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENES664 **Business Modeling and Customer Validation**

Restriction: Must be in the Product Management or the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies programs; or permission of Maryland Technology Enterprise Institute.

Focuses on how to create and deliver value for customers and extract value for the new venture. Develop business models that encompass the product or service, customers, and the economic engine to meet the venture's financial and growth objectives. Introduces a structured way to think about, analyze, and develop a sound business model that is customer validated.

PLM1	James Green	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.	

ENES667 **Market Development and Commercialization**

Restriction: Must be in the Product Management or the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies programs; or permission of Maryland Technology Enterprise Institute.

Provides an orientation to key marketing concepts critical to marketing technology-based products and services. Learn to identify market opportunities, understand customer preferences, evaluate market acceptance, and devise the appropriate going to market strategies for the new venture.

PLM1	David Bosley	Seats (Total: 50)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management and MPS in Technology Entreprenuership and Corporate Innovation may register without permission. All other graduate students may contact mtecheducation@umd.edu for permission to enroll. Golden ID students are not eligible for this section.	

ENES670 Financial Management and New Venture Financing

Restriction: Must be in the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Provides the essential tools and skills to build a strong financial foundation for a new technology venture. Examines accounting principles as well as methods for keeping firm financial control of the venture. Discusses navigating the multitude of financial barriers that may block entrepreneurial success, as well as how to raise the right amount of capital at the right time from the right source.

PLM1	Michael Pratt	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entreprenuership and Corporate Innovation may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll. Golden ID students are not eligible for this section.	

ENES676 Negotiation and Problem-Solving

Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Explores key negotiation techniques, how to apply these techniques, and their application to real-world scenarios. Establishes an understanding of deal-making, and creates a foundation for exploring the concepts of agreements, contracts, conflicts, and how the resulting transactions formed the foundation for modern scaled economies. Examines reputation effects, customer lifetime value, the basics of civil and criminal law, and how these have formed to constrain our interactions in modern society.

PLM1	Cynthia Gayton	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.	

ENES677 **Data Analysis and Decision Making**

Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Provides a comprehensive understanding of making decisions under uncertainty for products, portfolios, and programs across various industries and environments. Focuses on the use of Bayesian methods for informing decisions on products and programs when directing experiments. Examines the testing of product ideas throughout the lifecycle, from customer discover, to product discovery, to product design and optimization, to channel testing and marketing for growth.

PLM1	Gregory Baecher	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.	
PLMM	Gregory Baecher	Seats (Total: 5)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENFP Engineering, Fire Protection Summer 2024

ENFP429 **Independent Studies**

(Perm req)

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Contact department for information to register for this course.

ENFP613 **Advanced Life Safety Analysis**

(Perm req)

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP413 or ENFP613.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety engineering calculations. Physiology and toxicology of fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

EF01	Jamie McAllister, Steven Gwynne, Aoife Hunt **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

ENFP629 **Selected Topics**

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP649 **Special Problems**

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Contact department for information to register for this course.

ENFP651 **Advanced Fire Dynamics**

Prerequisite: ENFP312. Jointly offered with: ENFP415. Credit only granted for: ENFP629A, ENFP651 or ENFP415. Formerly: ENFP629A.

A review of the basic chemistry and physics necessary to understanding fire dynamics; and of the physics of heat transfer and turbulent fluid flow will be given. The nature and structure of premixed and diffusion flames will be presented.

EF01	Stanislav Stoliarov **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

ENFP799 **Master's Thesis Research**

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Summer 2024

ENGL101 **Academic Writing**

Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

An introductory course in academic writing.

WB11	Mike Kolakoski **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Nasim DarouieHaghighi **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Justin Lohr **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Jonathan Reyes **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 6) ONLINE

ENGL245 **Film Form and Culture**

Cross-listed with: CINE245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

Click here for more course information.

WB21	Diana Proenza **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

ENGL269A **Special Topics in Study Abroad II; American Writers in Paris**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL269I **Special Topics in Study Abroad II; James Joyce's Dublin: Creative Writing with The Dubliners: Ireland**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL348G **Literary Works by Women; Jane Austen: Novels, Films, Adaptations**

The context, form, style and meaning of literary works by women.

WB21	Tita Chico	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENGL359F **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Restriction: Junior standing or higher. Cross-listed with: LGBT327. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Also offered as LGBT327. Credit granted for LBGT327 or ENGL359F.

Click here for more course information.

WB41	James Goodwin	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

ENGL369A **Special Topics in Study Abroad III; American Writers in Paris**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369D **Australian Literature and Culture**

Additional information: This is an Education Abroad course.

An immersion into Australian culture and history, this course will explore the literature, music, theater, and arts of Indigenous and contemporary Australia. Students will engage directly with matters of political and social concern, developing both awareness of cultural issues important to modern-day Australians and the skills needed to navigate those issues. Along the way, we will look back to the colonial founding of Australia as a British outpost and consider how modern Australia has emerged from a mixing of Western and Indigenous cultures.

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements.

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369M **Special Topics in Study Abroad III; Travel Writing Workshop**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369P **Special Topics in Study Abroad III; Politics and Science Fiction**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369R **Special Topics in Study Abroad III; Great Actors**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL375 **J.R.R. Tolkien: Middle-earth and Beyond**

An in-depth look at major themes and ideas spanning Tolkien's well-known and lesser-known works across a variety of genres and styles. We will study "The Hobbit" and "The Lord of the Rings" in connection with Tolkien's back-story mythology expressed in "The Silmarillion." We will also consider film adaptations and other popular fantasy influenced by Tolkien. And we will explore lesser-known works such as "Farmer Giles of Ham," and Tolkien's essays on fairy stories and on "Beowulf.

Click here for more course information.

WB11	Vessela Valiavitcharska	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ENGL388P **English Careers Internship**

(Perm req)

Prerequisite: Permission of ARHU-English department. Repeatable to 12 credits if content differs. Additional information: Each enrolled credit equals 45 hours of on-site internship work.

Students receive credit for an internship of their choice that focuses at least half of its work on core English skills such as writing, editing, and research. Students secure their own internship placements. Course assignments include, for instance, an activity log, reflection papers, a supervisor evaluation, and a final portfolio of work.

Click here for more course information.

WB21	Karen Lewis	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENGL391 **Advanced Composition**

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

GC01	Peter Grybauskas **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *A professional writing course exploring the life and works of JRR Tolkien, professor and author of The Lord of the Rings. Virtual visits with scholars and experts in Oxford, England, where Tolkien spent much of his life, offer a unique opportunity to learn about the writer's world and the unique intersections between his scholarship and his fantasy. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration.*	Seats (Total: 19) ONLINE
GC02	Peter Grybauskas **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *A professional writing course exploring the life and works of JRR Tolkien, professor and author of The Lord of the Rings. Virtual visits with scholars and experts in Oxford, England, where Tolkien spent much of his life, offer a unique opportunity to learn about the writer's world and the unique intersections between his scholarship and his fantasy. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration.*	Seats (Total: 19) ONLINE
WB11	Liam Daley **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Alan Montroso **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Rachel Waugh **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB21	Mark Forrester **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Shannon Zellars Strohl **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL393 **Technical Writing**

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Focuses on the writing of technical papers and reports.

WB10	Ruth Phillips **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB11	Fredrick Cherry Jr **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Emily Flamm **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Laura Williams **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Joshua Buursma **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB15	Daniel Saalfeld **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB16	Ann Mason **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB17	Andrew Delfino **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB18	Katherine Joshi **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB19	Andrew Delfino **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB1A	Michelle Von Euw **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB1B	Gerard Holmes **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB20	Robin Allen-Klein **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Andrew Howard **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Carina Shi **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Katherine Oneill **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB24	Kisa Lape **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB25	Nicole Cuffy **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB26	Yvonne Roe **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB27	Natalie McGartland **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB28	Nia Crawford **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL394 **Business Writing**

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world: letters, memos, short reports, and proposals. Focus on the principles of rhetoric and effective style.

WB11	Sajeela Yaqub **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Robert Harris **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	John Kim **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB14	Erin Green **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Aubrey Zinn **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Adam Lloyd **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Erica Cochran **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB24	Sara Faradji **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB25	Dylan Lewis **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL395 **Writing for Health Professions**

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating health-related technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

WB11	Mark Fitzgerald **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Kevin Wisniewski **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB13	Sarah Dammeyer **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL409M **Study Abroad Special Topics IV; Literature, Art and Architecture in London**

Special topics course taken as part of an approved study abroad program.

Cross-listed with THET428E. Credit only granted for ENGL409M or THET428E. This course is an in-depth look at the best of British Culture. It has six focal points: History, Literature, and Drama as well as Art History, Archaeology, and Architecture. Lectures and discussions are conducted via Zoom as the class makes its way around London through time and space, looking at historic and archaeological sites, buildings, galleries, museums, and backstage at several theatres and rehearsal spaces. There are also guest lectures by friends working in such fields as theatre, archaeology, architecture, geology, historical biology, and local history. The class will also watch the streaming version of London plays. The archaeological BBC show, TIME TEAM, will be used to investigate sites associated with London in various times. Some guest lectures might take place outside of normal synchronous class hours. Students are expected to write several short papers on various topics.

Contact department for information to register for this course.

ENGL409Y **Study Abroad Special Topics IV; Travel Writing**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL429 **Independent Research in English**

(Perm req)

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

ENGL438C **Selected Topics in Media Studies; Graphic Novels by People of Color**

Advanced study of a topic pertinent to how the material production, technologies, and cultural practices of diverse types of media shape meaning.

WB21	Sharada Balachandran Orihuela **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

ENGL478M **Selected Topics in Literature before 1800; Mr. Shakespeare Goes to Hollywood**

Advanced study of key topics in literary works from earlier historical periods.

WB11	Kim Coles **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

ENGL679 **Professional and Career Mentoring for Master's Students**

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.

0108	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0266	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

ENGL699 **Independent Study**

(Perm req)

Contact department for information to register for this course.

ENGL799 **Master's Thesis Research**
Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)

ENGL899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENMA Engineering, Materials Summer 2024

ENMA499 **Senior Laboratory Project**

(Perm req)

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	You Zhou	Seats (Total: 2)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ENMA698 **Special Problems in Materials Science and Engineering**

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 3)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**
Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENME Engineering, Mechanical Summer 2024

ENME202 **Computing Fundamentals for Engineers**

(Perm req)

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

WB21	Kenneth Hart	Seats (Total: 55)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWF 10:30am - 11:50am	ONLINE	
	Th 10:00am - 12:00pm	ONLINE	Lab

ENME332 **Transfer Processes**

Prerequisite: ENME331. Credit only granted for: ENME332 or ENFP312.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Amir Shooshtari	Seats (Total: 28)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 10:00am - 1:30pm	MTH 0403	

ENME361 **Vibration, Controls and Optimization I**

Prerequisite: ENES220, ENES221, and MATH246; and (MATH206 or ENME202). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Vincent Nguyen	Seats (Total: 28)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 9:00am - 12:30pm	EGR 3106	

ENME392 **Statistical Methods for Product and Processes Development**

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Students have the option to meet in JMP2121.

WB11	David Bigio	Seats (Total: 34)	
	Meets May 28, 2024 - July 5, 2024		
	MW 10:00am - 12:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENME400 **Machine Design**

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0201	Chandrasekhar Thamire	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	MTuTh 10:00am - 1:00pm	EGR 2154

ENME407 **Sustainability, Climate Change and Renewable Energy Systems**

Prerequisite: PHYS260; or permission of ENGR-Mechanical Engineering department. Restriction: Students must have completed a minimum of 60 credits by the time they will enroll in this course.

Countries around the world are developing innovative and sustainable solutions that not only help to protect the environment from the threats of global climate change, but that also can improve human health and quality of life. In this course students will explore solutions to climate change, as well as geothermal and hydroelectric energy systems and their applications.

Contact department for information to register for this course.

ENME445 **Design for Reliability**

Restriction: Junior standing or higher.

Failure prevention, accident prevention, design requirements analysis, designing right the first time, high system reliability, software reliability, manufacturing defect prevention, life cycle costs reduction, design reviews, managing the design for reliability, design trustworthiness, product durability, and writing good specifications are covered.

WB11	Reuel Smith	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

ENME462 **Vibrations, Controls, and Optimization II**

Prerequisite: ENME361. Restriction: Permission of the Mechanical Engineering Department.

Continuation of ENME361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Sami Ainane	Seats (Total: 32)
	Meets May 28, 2024 - July 5, 2024	
	MW 10:00am - 1:30pm	EGR 3106

ENME470 **Finite Element Analysis**

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

WB11	Joshua Radice	Seats (Total: 19)
	Meets May 28, 2024 - July 5, 2024	
	MWF 8:00am - 10:30am	ONLINE

ENME488 **Special Problems**

(Perm req)

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Contact department for information to register for this course.

ENME701 **Sustainable Energy Conversion and the Environment**

Prerequisite: Undergraduate thermodynamics course or permission of instructor.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. The course introduces a range of innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar, and renewable enabling technologies such as energy storage are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy. This course is designed to provide, when taken together with ENME635, a comprehensive overview of sustainable energy production and utilization including carbon capture and sequestration.

Contact department for information to register for this course.

ENME799 **Master's Thesis Research**
Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

(Perm req)

Contact department for information to register for this course.

ENME898 **Pre-Candidacy Research**
Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENNU Engineering, Nuclear Summer 2024

ENNU899 **Doctoral Dissertation Research**

0102	Mohamad Al-Sheikhly	Seats (Total: 1)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

ENPM626 **Waste and Biomass Energy Conversion**

Prerequisite: Must have completed undergraduate courses in thermodynamics and heat transfer. Restriction: Permission of Maryland Applied Graduate Engineering.

The overall objective of this course is to develop a toolkit to evaluate the energy security - and in particular, the environmental energy security - of available energy resources and conversion technologies, including those in current use, and those that might be used in the foreseeable future. Energy security is evaluated using a simple three-dimensional model based in the academic literature. This is an engineering class, and while we must occasionally delve into related economics and policy issues, we will focus on the core technical competencies in energy conversion needed to navigate the current world of energy.

DE01	Patrick Caton	Seats (Total: 25)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENPM652 **Applied Finite Element Methods**

Restriction: Must not have completed ENME674; and must not have completed ENAE652. Credit only granted for: ENME674, ENAE652, or ENPM652.

Introduces the Finite Element Method (FEM), widely used to perform analyses in areas such as structural/solid mechanics, fluid mechanics, heat transfer. This course presents an introduction to the mathematical and physical concepts underpinning the FEM framework. Additionally, ANSYS Workbench software will be used to demonstrate engineering-scale examples for stress and thermal analysis problems. There are no formal requirements for this course although students will benefit from a familiarity with basic concepts in linear algebra, calculus, differential equations, solid mechanics, and heat transfer.

DE01	Peter Chung, Francis VanGessel	Seats (Total: 25)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

ENPM654 **Energy Systems Management**

Recommended: Background in thermodynamics, fluid mechanics, and heat transfer is recommended.

Covers a wide range of energy management and energy efficiency topics including energy auditing, energy efficient lighting systems and motors, demand limiting and control, control strategies for optimization, direct digital control, integrated building automation systems, communication networks, distributed generation, cogeneration, combined heat and power, process energy management and the associated economic analyses. Included will be the latest internet based technologies for accessing real-time energy pricing and managing energy demand remotely for multiple buildings or campuses.

CP01	Brian Valentine **Meets May 28, 2024 - August 16, 2024** W 5:30pm - 8:45pm	Seats (Total: 20) JMP 2216
ME01	Brian Valentine **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM687 **Digital Forensics and Incidence Responses**

Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line.

Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.

CP01	Jonas Amoonarquah **Meets May 28, 2024 - August 16, 2024** W 5:30pm - 8:45pm	Seats (Total: 20) JMP 2222
CY01	Jonas Amoonarquah **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM702 **Introductory Robot Programming**

Restriction: Permission of Maryland Applied Graduate Engineering. Credit only granted for: ENPM809Y or ENPM702. Formerly: ENPM809Y .

This hands-on course will introduce students to the C++ programming language and is specifically designed for students who have had little to no programming experience in their previous studies.

CP01	Zeid Kootbally **Meets May 28, 2024 - July 23, 2024** MW 6:00pm - 8:40pm	Seats (Total: 25) JMP 2121
RO01	Zeid Kootbally **Meets May 28, 2024 - July 23, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Advanced topics selected by the faculty for students in the professional master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	George Syrmos **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

ENRE Reliability Engineering Summer 2024

ENRE447 **Fundamentals of Reliability Engineering**

Prerequisite: Minimum grade of C- in MATH141 and MATH246. Restriction: Must be in Mechanical Engineering, Aerospace Engineering, Civil Engineering, or Fire Protection Engineering; or must be in the Nuclear Engineering minor; or permission of department.

Provides a general survey of the techniques of reliability engineering with a focus on theoretical basis and quantitative methods, with frequent examples of application. Topics include mathematical definition of reliability, probabilistic models to represent failure phenomena, statistical life models for non-repairable components, reliability data analysis, failure modes and effects analysis, risk analysis, and system reliability models including fault trees, event trees. Students will learn how to apply these techniques to problems related to engineering systems, with example cases for process plants, energy systems and infrastructure.

Contact department for information to register for this course.

ENRE489K **Special Topics in Reliability Engineering; Design for Reliability**

Selected topics of current importance in reliability engineering.

ER01	Reuel Smith **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Reuel Smith **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 10) ONLINE
WB11	Reuel Smith **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 10) ONLINE

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE799 **Master's Thesis Research**
Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**
Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENSE Systems Engineering Summer 2024

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact Systems Engineering Office, Rm. 2172 A. V. Williams Bldg. to make arrangements.

0101	Michael Ball **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	John Baras **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Mark Austin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Guangming Zhang **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Eyad Abed **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0107	Ben Shneiderman **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0112	Satyandra Gupta **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0114	Michael Fu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0116	Jeffrey Herrmann **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0117	Raymond Adomaitis **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0119	Reza Ghodssi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0122	David Lovell **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0123	Mumu Xu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0124	Alireza Khaligh **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	Pamela Abshire **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0127	William Rand **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0128	John Aloimonos **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0130	Yancy Diaz-Mercado **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Abhinav Shrivastava **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Dinesh Manocha **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Derek Paley **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Kenneth Wood **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	John Baras **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0216	Jeffrey Herrmann **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0222	David Lovell **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0223	Mumu Xu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)	
0228	John Aloimonos **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)	
0229	Shihab Shamma **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)	
0230	Yancy Diaz-Mercado **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)	

ENSP Environmental Science and Policy Summer 2024

ENSP305 **Applied Spatial Analysis in Environmental Science and Policy**

Prerequisite: GEOG373; or permission of Environmental Science and Policy Program. Recommended: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits; and permission of Environmental Science and Policy program.

Intended for students interested in pursuing career or graduate research opportunities that will include identifying/querying/processing environmental datasets, detailed spatial analysis of environmental data, and applications of predictive environmental modeling. Students will learn necessary skills to analyze and process environmental data through hands-on training in commonly used software and a series of topical case studies. Data analysis and data processing will be taught using publicly available real-world environmental data sets.

WB21	Annette Spivy **Meets July 8, 2024 - August 16, 2024** Tu 1:00pm - 3:30pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE	 Discussion

ENSP386 **Internship**

(Perm req)

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP489I **Special Topics in Environmental Science and Policy; Urban Agriculture**

A lecture and or laboratory series organized to study a selected phase of Environmental Science and Policy not covered by existing courses. Credit according to time scheduled and organization of the course.

Contact department for information to register for this course.

ENST Environmental Science and Technology Summer 2024

ENST360 **Ecosystem Ecology**

Prerequisite: BSCI160 and BSCI161; or BSCI106. Restriction: Must be in the Environmental Science and Technology major; or permission of instructor.

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

WB21	Jose-Luis Izursa	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	TuTh 12:00pm - 12:50pm	ONLINE	Discussion

ENST389 **Internship**

(Perm req)

Credit will be granted for practical work carried out by students placed in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST489 **Research Experience**

(Perm req)

An advanced research-based course in the field of environmental science and technology.

Contact department for information to register for this course.

ENST499 **Special Topics in Environmental Science and Technology**

(Perm req)

An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0204	Shannon Browne **Meets July 8, 2024 - August 16, 2024** TBA	Seats (Total: 10) ANS 0538
0304	Shannon Browne **Meets May 28, 2024 - June 14, 2024** TBA	Seats (Total: 10) ANS 0538
I183	Paul Leisnham **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
I283	Paul Leisnham **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

ENST499P **Special Topics in Environmental Science and Technology; Ecology and Natural Resources Management in Brazil**

An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST608 **Research Methods**

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST608A **Research Methods; Field Studies in Pedology**

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

I201	Martin Rabenhorst **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

ENST689P **Special Topics; Ecology and Natural Resources Management in Brazil**

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Contact department for information to register for this course.

ENST799 **Master's Thesis Research**
Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**
Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENTM Entomology Summer 2024

ENTM735 **Sustainability**

Application of the concept of sustainability to both ecosystem services provided by beneficial insects, as well as the management of injurious insects. Ecological functions of insects in the natural and anthropogenic landscape will be illustrated and discussed. In addition, case histories and discussions will focus on themes of sustainability in successful IPM programs, as well as specific practices that lead to sustainable agriculture. The course will conclude with the development of a list of sustainable practices for conserving and managing insects in the landscape.

PLE1	Bill Lamp	Seats (Total: 8)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	
PLEM	Bill Lamp	Seats (Total: 8)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

ENTM760 **Insects in the 21st Century**

This course will explore the influence and impact of major technological advances in genetics, molecular genetics and biotechnology on the study of insects. Topics will include the use of insects as models for studying human biology and diseases; the use of genetics and genetic technologies to augment existing strategies for managing pest insects and well as the invention of novel management approaches; the use of genetics and genetic technologies in the fields of insect conservation, ecology and evolution.

PLE1	Michelle Bertke	Seats (Total: 8)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	
PLEM	Michelle Bertke	Seats (Total: 8)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

ENTM799 **Master's Thesis Research**
Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

ENTS Telecommunications Summer 2024

ENTS699R **Independent Study in Telecommunications**

(Perm req)

Individual instruction course. See ENTS program office for section number.

Please click here for further course information.

WB21	Alejandra Mercado	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	F 5:30pm - 7:35pm	ONLINE

EPIB Epidemiology and Biostatistics Summer 2024

EPIB300 **Biostatistics for Public Health Practice**

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: EPIB300, EPIB315 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

WB21	Jamie Trevitt **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 100) ONLINE

EPIB301 **Epidemiology for Public Health Practice**

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

WB11	Typhanye Dyer **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 100) ONLINE

EPIB315 **Biostatistics for Public Health Practice**

Prerequisite: Minimum grade of C- in EPIB301; or must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in one of the following programs (Public Health Science; Community Health). Credit only granted for: EPIB300 or EPIB315. Formerly: EPIB300. Additional information: Course is cross-listed; students should check program advising information to determine which counts for their major. Note that EPIB300 (old number) is still offered for students under previous curriculum.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

WB21	Jamie Trevitt **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 100) ONLINE

EPIB399 **Epidemiology and Biostatistics Independent Study**

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

0104	Mei-Ling Lee **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0105	Hongjie Liu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)

0106	Raul Cruz-Cano **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0107	Olivia Carter-Pokras **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0108	Tianzhou Ma **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0110	Cher Dallal **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0111	Xin He **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0112	Quynh Nguyen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0113	Typhanye Dyer **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0114	Natalie Slopen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0116	Paul Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0117	Amir Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)

0118	Amy Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0119	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0120	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0121	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0122	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0204	Mei-Ling Lee **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0205	Hongjie Liu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0206	Raul Cruz-Cano **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0207	Olivia Carter-Pokras **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0208	Tianzhou Ma **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0210	Cher Dallal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0211	Xin He **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0212	Quynh Nguyen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0213	Typhanye Dyer **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0214	Natalie Slopen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0216	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0217	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0218	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0219	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0220	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0221	Sacoby Wilson	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	
0222	Instructor: TBA	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

EPIB463 **Introduction to Biostatistical Programming**

An introduction to basic programming principles; data analysis tasks such as the calculation of summary statistics and the creation of graphs; and the implementation of statistical analysis concepts such as T-tests, ANOVA and correlation. Querying and managing data sets using SQL in SAS will also be covered.

WB21	Menglu Liang	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 4:00pm - 7:30pm	ONLINE

EPIB467 **Introduction to Machine Learning with Python**

Prerequisite: EPIB300, EPIB315, EPIB650, or SPHL602. Jointly offered with: EPIB667. Credit only granted for: EPIB467 or EPIB667.

Machine Learning is the cutting-edge technology revolutionizing predictive analytics. This introductory course covers multiple models/algorithms widely applied to structured data with numerical and categorical variables, serving both as outcomes and predictors. It explores over a dozen foundational and advanced models for supervised learning, as well as several models for unsupervised learning. By covering essential math and statistics for understanding ML algorithms, the focus is on understanding the distinctive features of the models and hands-on coding exercises in the Cloud, emphasizing practical application from the start.

Machine Learning is the cutting-edge technology revolutionizing predictive analytics. This introductory course covers multiple models/ algorithms widely applied to structured data with numerical and categorical variables, serving both as outcomes and predictors. It explores over a dozen foundational and advanced models for supervised learning, as well as several models for unsupervised learning. By covering essential math and statistics for understanding ML algorithms, the focus is on understanding the distinctive features of the models and hands-on coding exercises in the Cloud, emphasizing practical application from the start.

WB11	Kumar Mainali	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	MW 4:00pm - 7:30pm	ONLINE

EPIB489A **Special Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Special topics in epidemiology or biostatistics.

Also offered as EPIB689A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB611 **Intermediate Epidemiology**

Prerequisite: 1 course with a minimum grade of B- from (SPHL602, EPIB610); or a minimum score of 70% on the SPHL602 or EPIB610 waiver exam.

Analysis of epidemiologic methods as applied to epidemiologic research, analysis of bias, confounding, effect modification issues, overview of design, implementation, and analysis of epidemiologic studies.

WB21	Jessica Keralis	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 5:00pm - 8:30pm	ONLINE

EPIB620 **Chronic Disease Epidemiology**

(Perm req)

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of prevalence and risk factors for major chronic diseases. Discussion of methodological issues unique to specific chronic disease.

WB11	Olivia Carter-Pokras	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

EPIB651 **Applied Regression Analysis**

Prerequisite: 1 course with a minimum grade of B- from (SPHL602, EPIB650); or a minimum score of 70% on the SPHL602 or EPIB650 waiver exam. Recommended: EPIB697 or previous experience working with SAS is highly recommended.

An introduction to important statistical methods used in public health research, including nonparametric hypothesis testing, ANOVA, simple and multiple linear regression, logistic regression, and categorical data analysis.

WB11	Xin He **Meets May 28, 2024 - July 5, 2024** MW 4:00pm - 7:30pm	Seats (Total: 25) ONLINE

EPIB660 **Analysis of National Health Survey Data**

Prerequisite: EPIB650; or permission from Instructor. Recommended: EPIB697.

Provides background on how features such as stratification, clustering, and unequal sample selection probabilities can invalidate the assumptions underlying traditional statistical techniques, those implicitly assuming a simple random sampling with replacement design. Application using the SURVEY family of SAS/STAT procedures (Version 9.4 or later).

PLY1	Yan Li **Meets May 28, 2024 - July 5, 2024** TuTh 4:00pm - 7:30pm *Must be in Health Data Analysis (GC). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.*	Seats (Total: 10) ONLINE
WB11	Yan Li **Meets May 28, 2024 - July 5, 2024** TuTh 4:00pm - 7:30pm	Seats (Total: 25) ONLINE

EPIB667 **Applied Machine Learning with Python**

Prerequisite: EPIB315, EPIB300, EPIB650, or SPHL602. Jointly offered with: EPIB467. Credit only granted for: EPIB467 or EPIB667.

Machine Learning is the cutting-edge technology revolutionizing predictive analytics. This introductory course covers multiple models/algorithms widely applied to structured data with numerical and categorical variables, serving both as outcomes and predictors. It explores over a dozen foundational and advanced models for supervised learning, as well as several models for unsupervised learning. By covering essential math and statistics for understanding ML algorithms, the focus is on understanding the distinctive features of the models and hands-on coding exercises in the Cloud, emphasizing practical application from the start.

Machine Learning is the cutting-edge technology revolutionizing predictive analytics. This introductory course covers multiple models/ algorithms widely applied to structured data with numerical and categorical variables, serving both as outcomes and predictors. It explores over a dozen foundational and advanced models for supervised learning, as well as several models for unsupervised learning. By covering essential math and statistics for understanding ML algorithms, the focus is on understanding the distinctive features of the models and hands-on coding exercises in the Cloud, emphasizing practical application from the start.

WB11	Kumar Mainali	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	MW 4:00pm - 7:30pm	ONLINE

EPIB689A **Advanced Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Special topics in epidemiology or biostatistics.

Also offered as EPIB489A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB695 **Introduction to R for Health Data Analysis**

Jointly offered with: EPIB463. Credit only granted for: EPIB463 or EPIB695.

A hands-on introduction to the statistical package R for health data management and analysis. The first part of the course focuses on basic and essential data manipulation and visualization using R. The second part emphasizes the use of R in statistical analyses, including summarization, correlation, chi-squared test, t-tests, ANOVA, simple and multiple regression. Students will also learn fundamental R language programming to perform user-defined calculations. No previous knowledge of R or of statistical analysis are assumed.

WB21	Menglu Liang	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 4:00pm - 7:30pm	ONLINE

EPIB697 **Public Health Data Management**

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

PLY1	Menglu Liang	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Health Data Analysis (GC). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

WB21	Menglu Liang	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	MW 4:00pm - 7:30pm	ONLINE

EPIB778 **Practical Experience in Public Health**

(Perm req)

Practice experience providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practice experience will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB786 **Capstone Project in Public Health**

(Perm req)

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

FIRE First-Year Innovation & Research Experience Summer 2024

FIRE199 **Research Internship**

Research and mentorship-centered course designed to provide research experience, technical skill sets, an understanding of the expectations and requirements of research environments, and broad professional development. Students in this course work directly with a faculty mentor and peers in laboratory and other research environments on the design and fulfillment of authentic and discipline-relevant research outcomes. The iterative advancement of final research products contributes to the development of higher capacities in collaboration and teamwork, communication, critical thinking, and discipline-specific training and skill sets.

0101	Mary Chey **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Gene Silencing*	Seats (Total: 8)
0102	Danielle Niu **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Project Greenhouse*	Seats (Total: 8)
0103	Cherisse Hall **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Bacterial Pathogenesis*	Seats (Total: 8)
0104	Jessica O'Hara **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Host-Pathogen Interactions*	Seats (Total: 8)
0105	Quira Zeidan **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *CellEx*	Seats (Total: 8)
0106	Halli Weiner **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Fertility Science*	Seats (Total: 8)
0107	Benjamin Huffman **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Global Development & Design*	Seats (Total: 8)

0108	Jaclyn Bruner **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Visualizing Social Justice*	Seats (Total: 8)
0109	Elizabeth Massey **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Music & Social Identity*	Seats (Total: 8)
0110	Shannon Hilton **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Rapid Diagnostics*	Seats (Total: 8)
0111	Kristina Kramarczuk **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Computing & Society*	Seats (Total: 8)
0112	Thanicha Ruangmas **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Sustainability Analytics*	Seats (Total: 8)
0113	Shabnam Jabeen **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Quantum Machine Learning*	Seats (Total: 8)
0114	Sara Strey **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *Climate Computing*	Seats (Total: 8)
0115	Lena Johnson **Meets May 28, 2024 - July 19, 2024** Contact instructor or department for details. *BioInspired Robotics*	Seats (Total: 8)

FMSC110 **Families and Global Health**

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

WB31	Elisabeth Maring	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC111 **Credit Cards and College Students**

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

WB51	Jesse Ketterman	Seats (Total: 35)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

FMSC123 **Personal Financial Literacy: From Distress to Success**

Exploring strategic thinking, career, education, financial planning during college years as the foundation for success in living a meaningful life. While introducing relevant institutions and tools & techniques that are critical for financial planning, this course applies value-based goal setting and strategic planning that inform individuals' paths for a successful career, educational attainment, and optimum (mental, physical and financial) wellbeing throughout their life cycle. The course particularly emphasizes the individual's responsibility of living in an institution rich society, where, continuous learning, understanding institutions, rational decision-making, valuing relationships and networking, early career development, record keeping, budgeting, generating income and wealth, purposeful spending, saving and investing, tax planning, appropriate use of loans, risk taking and insurance, and retirement planning are well rewarded and ensure the optimum use of college years and the rest of life-course.

WB51	Manouchehr Mokhtari	Seats (Total: 35)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

FMSC170 **Modern Families**

Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.

What is a Family? Engage in examination of the current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

WB31	Colton Kilpatrick	Seats (Total: 30)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC190 **Man Up! Where Are The Fathers?**

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

WB31	Kevin Roy	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC200 **PERSONAL BEHAVIORAL FINANCE**

Personal Behavioral Finance offers a detailed, step-by-step guide for effective personal financial management, utilizing principles of behavioral finance. The course delivers practical strategies for saving and investing, minimizing credit card debt and stress, effectively managing risk, and planning for taxes. It aims to equip individuals with the skills needed to navigate a successful financial life throughout their lifetime.

WB31	Manouchehr Mokhtari	Seats (Total: 35)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC286 **Assisted Reproduction Law and Policy in the US and Brazil**

Credit only granted for: FMSC186 or FMSC286. Additional information: This is a global classroom course where students will learn online, meet once a week in a synchronous class on Webex with their Brazilian classmates, and work individually via Webex in small international groups.

In this Global Classroom, U.S. students will work synchronously online with their international partners in Brazil to critically think about cutting-edge ethical, legal, policy and scientific issues in the field of Assisted Reproduction Technologies (ART) in the two countries. This course looks at conventional families created in unconventional ways to examine such topics as sperm and egg donation, in vitro fertilization, surrogacy, reproductive organ transplants and more - while considering the social, cultural, racial, religious, economic, or socioeconomic contexts that influence each. Students will work with their foreign peers in small groups to compare ART in each country and then create proposed legislation for either the U.S. or Brazil which their international group will present online to their colleges and submit to the country's legislators. In so doing, students will be challenged to think critically and see their place in creating actionable change in a global society.

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

FMSC310 **Maternal, Child and Family Health**

Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.

Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.

WB41	Edmond Shenassa **Meets July 8, 2024 - July 26, 2024** Class time/details on ELMs	Seats (Total: 45) ONLINE

FMSC330 **Family Health: Health Happens in Families**

Restriction: Junior standing or higher.

The objective of this gateway course is to help you understand and apply basic theories and empirical data on family health. The course is designed to provide you with skills to think critically about theories including: Life Course Theory, the Bio-Ecological and Social-Ecological Models, and Systems Theory. We will ask questions about the distinct qualities and intersections of contexts and characteristics that impact the functioning of families. We will apply theory and research to topical issues in family health that are impacted by social structures such as conflict, crisis, migration, incarceration and inequalities.

WB51	Laura Golojuch **Meets June 17, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB61	Rabiatu Barrie **Meets July 29, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

FMSC332 **Children in Families**

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

WB31	Christine Schull	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC340 **Mental Health and Healing in Families**

Using an interdisciplinary approach to study mental health, mental wellness, and substance use, we will answer questions such as: How has our understanding and treatment of mental health changed throughout history? What are the current prevalence patterns and risk factors associated with mental health conditions? What is the prevention to postvention continuum? What is the role of relationships, families, and communities in addressing mental health? How do we diagnose and treat various mental health disorders using the best available research? And, what are the various mental health disciplines and how do they differ? This course is designed to examine mental health issues across the life course. We will explore the influence of social contexts, including racism and additional forms of othering, on mental health and wellness, and introduce the health systems that support mental health prevention and treatment.

WB31	Amy Morgan	Seats (Total: 30)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC341 **Personal and Family Finance**

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

WB22	Manouchehr Mokhtari	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
WB41	Manouchehr Mokhtari	Seats (Total: 35)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

FMSC383 **Health and Human Services Delivery and Evaluation**

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

WB41	Christine Schull	Seats (Total: 40)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

FMSC386 **Experiential Learning**

(Perm req)

Prerequisite: Permission of SPHL-Family Science department. Restriction: Junior standing or higher. Credit only granted for: FMSC386 or FMST386. Formerly: FMST386.

Contact department for information to register for this course.

FMSC399 **Independent Study**

(Perm req)

Individualized family and community studies projects of interest to student and faculty.

Contact department for information to register for this course.

FMSC432 **Adult Development and Aging in Families**

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

WB21	Christine Schull	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

FMSC444 **Personal Financial Planning**

Jointly offered with: FMSC644. Credit only granted for: FMSC444 or FMSC644.

Provides a solid framework, meaningful context, institutional understanding, and critical skills for solving key personal financial planning problems for the graduating seniors or the graduate students who will enter the job market. Practical illustrations and substantive examples complement formal and intuitive approach for use by current students and tomorrows graduates when succeeding in a dynamic job market with minimal support for managing finances are becoming the norm in our society. Students learn how to manage their finances, improve spending habits, ask the right questions, budget effectively, pay taxes, choose the right bank for their needs, determine whether to buy or lease a car, select the best credit card, recognize what's most important in buying a home, investing, plan for retirement, and make sound decisions.

WB51	Manouchehr Mokhtari	Seats (Total: 35)	
	Meets June 17, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

FMSC460 **Violence in Families**

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

WB31	Christine Schull	Seats (Total: 45)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

A planned, supervised internship complemented by analysis. Opportunities to integrate theory and practice. Field experience requires minimum of 120 hours per semester.

WB11	Zachary Berman	Seats (Total: 45)	
	Meets May 28, 2024 - August 16, 2024		
	W 9:30am - 11:00am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

FMSC486 **Law, Public Health and the Cuban Family**

Recommended: FMSC487. Jointly offered with: FMSC686. Credit only granted for: FMSC486, FMSC686 or MIEH698B. Additional information: This is a study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A short-term summer study abroad course that is a comparative law and public health course. Students travel to Havana, Cuba to compare family problems in a capitalist versus socialist society within the context of legal, public health, social, cultural and economic changes.

Contact department for information to register for this course.

FMSC486C **Law, Public Health and the Cuban Family**

Recommended: FMSC487. Jointly offered with: FMSC686. Credit only granted for: FMSC486, FMSC686 or MIEH698B. Additional information: This is a study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A short-term summer study abroad course that is a comparative law and public health course. Students travel to Havana, Cuba to compare family problems in a capitalist versus socialist society within the context of legal, public health, social, cultural and economic changes.

Contact department for information to register for this course.

FMSC487 **Family Law**

Designed for students interested in studying the law, public health, and family science, this course provides students with a general overview of family law and the impact on healthy families. The course also includes the study of cutting-edge issues such as marriage equality, assisted reproduction and ethical issues that may arise.

WB41	Kerry Tripp	Seats (Total: 40)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

FMSC498 **Special Topics: Family Science**

(Perm req)

Special course topics in family studies.

Individual family studies instruction course on topics of interest to student and faculty.

Contact department for information to register for this course.

FMSC498H **Special Topics: Family Science; Family Studies Honors Thesis**

(Perm req)

Special course topics in family studies.

Contact department for information to register for this course.

FMSC645 **Sexuality: Issues in Family Therapy and Service Delivery**

Prerequisite: Must have completed a basic course in human sexuality. Restriction: Permission of instructor. Jointly offered with FMSC445. Credit only granted for: FMSC445 or FMSC645.

Typical, dysfunctional, and pathological sexual functioning: effects on individuals, couples, and family systems. Sensitizes students to sexual issues, explores how perceptions or such issues affect work with people, and emphasizes implications for marriage and family therapy.

0101	Marjorie Nightingale **Meets May 28, 2024 - July 5, 2024** Tu 9:00am - 12:30pm Th 9:00am - 12:30pm *Please see ELMS for course details.*	Seats (Total: 20) Location: TBA ONLINE

FMSC658 **Supervised Clinical Practice in Couple and Family Therapy**

(Perm req)

This course is designed to provide supervision of family, couple, and individual therapy client contact. This course is limited to, and required of, all students admitted to the Couples and Family Therapy (CFT) Program. Supervision utilizes various family systems models and differing methods are employed.

Prerequisite: FMSC650 and Permission of Instructor.

0101	Tiara Fennell **Meets May 28, 2024 - July 5, 2024** W 9:00am - 12:00pm Contact instructor or department for details.	Seats (Total: 11) Location: TBA
0201	Tiara Fennell **Meets July 8, 2024 - August 16, 2024** W 9:00am - 12:00pm Contact instructor or department for details.	Seats (Total: 10) Location: TBA

FMSC686 **Law, Public Health and the Cuban Family**

Jointly offered with: FMSC486. Credit only granted for: FMSC486, FMSC686 or MIEH698B. Additional information: This is a summer short-term faculty-lead study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A comparison of family problems in the United States, a capitalist society, with Cuba, a socialist one, as evaluated within the context of legal, public health, social, cultural, and economic changes. The highlight of the course is time spent in Havana, Cuba where students may gain first-hand knowledge of these issues through visits to a hospital, fertility clinic, rural doctor's office, medical school, law offices, museums, and a slave rebellion site and while meeting with the U.S. Ambassador in Cuba, Cuban judges, lawyers, doctors, professors, and health care professionals and the Cuban people as their host families and beyond.

Contact department for information to register for this course.

FMSC689 **Research Internship**

(Perm req)

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Internship related to student's chosen specialization.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Arranged group study on specific topic which may vary from term to term.

Contact department for information to register for this course.

FMSC698V **Advanced Topics in Family Science; Violence in Families**

Arranged group study on specific topic which may vary from term to term.

WB31	Christine Schull	Seats (Total: 45)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

FMSC699 **Independent Study**
Contact department for information to register for this course.

FMSC789 **Non-Thesis Research**

(Perm req)

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**
Contact department for information to register for this course.

FMSC898 **Pre-Candidacy Research**

0202	Colton Kilpatrick	Seats (Total: 3)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

FMSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

FREN French Summer 2024

FREN103 **Intensive Elementary French**

Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Morgan Stinson	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section will be partially synchronous. Meeting times will be discussed the first day of class.	

FREN203 **Intensive Intermediate French**

Prerequisite: FREN103; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Apolline Lagarde	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
WB21	Madeline Muravchik	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

FREN204 **French Grammar and Composition**

Prerequisite: FREN201 or FREN203; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

WB21	Theavy Din	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

FREN211 **French Reading and Conversation**

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN269A **Special Topics in Study Abroad II; French Songs**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN301 **Composition and Style**

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

WB11	Maria Beliaeva Solomon	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

FREN311 **Advanced Oral Expression**

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using various French media resources.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third-Year French I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369I **Special Topics in Study Abroad III; Third-Year French I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN399X **Directed Study in French; French Language and Culture on the Mediterranean**

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

GEOG Geographical Sciences Summer 2024

GEOG110 **The World Today: Global Perspectives**

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

WB31	Rachel Haber	Seats (Total: 35)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Catastrophic Environmental Events (CCE) that are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

WB31	Keith Yearwood	Seats (Total: 50)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

GEOG158G **Special Topics in Study Abroad I; The Geography of Grenada**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG172 **Earth From Space**

Earth observations from space enable the mapping and monitoring of our changing planet. This survey course reviews current observational capabilities and examines scientific applications in quantifying global environmental change. Drivers and outcomes of key dynamics will be illustrated and discussed, including sea and continental ice loss, deforestation, ocean warming, urbanization, agricultural expansion and intensification, and vegetation response to climate change.

Earth observations from space enable the mapping and monitoring of our changing planet. Drivers and outcomes of key global environmental change dynamics will be illustrated and discussed, including sea and continental ice loss, deforestation, ocean warming, urbanization, agricultural expansion and intensification, and vegetation response to climate change. This introductory survey course will focus on the big question: Why are Earth observations from space critical for monitoring our changing planet? Students will gain an understanding of the capabilities offered by current Earth-observing satellite missions including how satellites view the Earth, what they can observe, and what significant problems can they solve.

WB4Y	Rachel Marks **Meets July 8, 2024 - July 26, 2024** MTuWThF 12:00pm - 2:30pm	Seats (Total: 20) ONLINE
YW41	Rachel Marks **Meets July 8, 2024 - July 26, 2024** MTuWThF 12:00pm - 2:30pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 24) ONLINE

GEOG201 **Geography of Environmental Systems**

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

WB51	Amanda Hall **Meets June 17, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB61	Shi Wee **Meets July 29, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

GEOG202 **Introduction to Human Geography**

Introduction to what geographers do and how they do it. Systematic study of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?

WB61	Jiaxun Sun	Seats (Total: 25)	
	Meets July 29, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

GEOG211 **Geography of Environmental Systems Laboratory**

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

WB51	Stella Shanker	Seats (Total: 40)	
	Meets June 17, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
WB61	Haolin Shao	Seats (Total: 25)	
	Meets July 29, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

GEOG272 **Introduction to Earth Observation Science**

Credit only granted for: GEOG272 or GEOG372. Formerly: GEOG372.

Concepts and principles of Earth observation and remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

WB11	Elisabeth Powell	Seats (Total: 35)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 4:00pm - 5:50pm	ONLINE	
	TuTh 6:00pm - 8:00pm	ONLINE	Lab
	Students must pay a $40.00 laboratory materials fee.		

GEOG276 **Principles of Python Programming and Geocomputing**

Introduces conceptual and practical aspects of scientific computing using the Python programming language. The main focus is on developing proficiency for the basic elements of the development environment, foundational syntax including variables, logical operators, looping, conditional statements, nesting, and common programming patterns for mathematical and textual computing. In addition, essential data structures and functionality for scientific computing, such as arrays, dataframes, and data visualization will be introduced. Throughout the course, students will also become exposed to various applications in the domain of the social and environmental sciences.

WB11	Rachel Marks	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	MW 6:00pm - 9:30pm	ONLINE
	Students must pay a $40.00 laboratory materials fee.	

GEOG306 **Introduction to Quantitative Methods for the Geographical Environmental Sciences**

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

Students must pay a $40.00 laboratory materials fee.

WB21	Naijun Zhou	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	MW 6:30pm - 10:00pm	ONLINE

GEOG328M **Topics in Regional Geography; Geography of the Southern Caribbean**

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

WB41	Jingjing Xu	Seats (Total: 50)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE
WB51	Jingjing Xu	Seats (Total: 50)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GEOG358A **Special Topics in Study Abroad III; Croatia: At the Doorsteps of the European Union- Leaving Behind the Memories**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358B **Special Topics in Study Abroad III; Investigating the Geographical Impacts of Urbanization in China**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358C **Special Topics in Study Abroad III; China: Summer Honors Research Program**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358D **Special Topics in Study Abroad III; Croatia: From War and Communism to the EU Membership**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG373 **Geographic Information Systems**

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

WB11	Naijun Zhou **Meets May 28, 2024 - July 5, 2024** MW 6:30pm - 10:00pm	Seats (Total: 45) ONLINE
WB21	Haley Mullen **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 45) ONLINE

GEOG384 **Internship in Geography I**

(Perm req)

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG384H **Internship in Geography I**

(Perm req)

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

Contact department for information to register for this course.

GEOG385 **Internship in Geography II**

(Perm req)

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG385H **Internship in Geography II**

(Perm req)

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

Contact department for information to register for this course.

GEOG398 **Special Topics in Geography**

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG473 **Geographic Information Systems and Spatial Analysis**

Prerequisite: GEOG306 and GEOG373; or students who have taken courses with comparable content may contact the department. Credit only granted for: GEOG473 or GEOG482. Formerly: GEOG482.

Analytical uses of geographic information systems; data models for building geographic data bases; types of geographic data and spatial problems; practical experience using advanced software for thematic domains such as terrain analysis, land suitability modeling, demographic analysis, and transportation studies.

WB41	Naijun Zhou	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE
	Students must pay a $40.00 laboratory materials fee.	

GEOG498 **Topical Investigations**

(Perm req)

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG603 **Masters Research Tutorial**

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG656 **Advanced Programming for GIS**

Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

Programming and scripting for intermediate GIS users. The fundamental concepts of computer programming will be introduced within the Geoprocessing framework in ArcGIS primarily using Python. Concepts of object-oriented programming and scripting will be presented. Students will develop skills in programming techniques to explore, manipulate and model spatial data using the Geoprocessor methods.

Students must pay a $40 laboratory materials fee.

PGS1	Jonathan Resop	Seats (Total: 35)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	LEF 1158	
	Tu 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online. Golden ID students are not eligible for this section.		

PLG1	Jonathan Resop	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online. Golden ID students are not eligible for this section.		
PLGM	Jonathan Resop	Seats (Total: 10)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact exst@umd.edu. Part of Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.		

GEOG657 **Web Programming**

Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Geospatial Information Sciences program. Credit only granted for: GEOG657 or GEOG788R. Formerly: GEOG788R.

Intermediate course designed to teach students the techniques for Web development, particularly creating dynamic and data-driven Web applications. Introduces a high-level, object-oriented programming language such as VB.Net and the designing, coding, debugging, testing, and documenting for the development of Web-based applications. Other popular Web development tools such as DHTML, CSS and PHP are also covered.

Students must pay a $40 lab fee.

PGS1	Xin Tao	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	LEF 1158	
	Th 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.		
PLG1	Xin Tao	Seats (Total: 15)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences, Online. Golden ID students are not eligible for this section.		

PLGM	Xin Tao	Seats (Total: 10)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact exst@umd.edu. Part of Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.		

GEOG666 **Drones for Data Collection**

Prerequisite: GEOG646 or GEOG656. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences. Credit only granted for: GEOG688E or GEOG666. Formerly: GEOG688E.

Topics covered in this class include: how to prepare students to obtain their FAA Remote Pilot License, understand how to pick drone systems for a data need, and utilize Pix4D to process drone imagery. Before talking about data students will learn about drone and aviation specific laws that will affect them while carrying out operations. Once legal limitations of drone flights have been covered the course will shift toward learning how to select a drone system based on specifications of the equipment and needs of the project and flying. Students will then move on to data processing utilizing Pix4D, Python, and Bash to clean data and automate processing.

PGS1	Lain Graham	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	LEF 1171	
	Th 5:30pm - 8:00pm	LEF 1171	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence. Golden ID students are not eligible for this section.		
PLG1	Lain Graham	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online. Golden ID students are not eligible for this section.		
PLGM	Lain Graham	Seats (Total: 10)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact exst@umd.edu. Part of Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.		

GEOG682 **Open Source Intelligence**

Open Source Intelligence (OSINT) is information that is publicly available that is collected and analyzed to support decision-making. The collection and analysis of OSINT is often considered to be the first step in developing an all-source intelligence product, where OSINT is fused with Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), and Measurement and Signature Intelligence (MASINT), and Human Intelligence (HUMINT). In this course you will learn about the sources, ethics, and methods that are associated with OSINT, and will also develop knowledge and skills related to open-source geospatial technologies and organizations such as the Open Geospatial Consortium (OGC).

PGS1	Mayur Gosai	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	LEF 1106	
	Th 5:30pm - 8:00pm	LEF 1106	Lab
	Must be in Graduate Programs in Geospatial Intelligence. Golden ID students are not eligible for this section.		
PLG1	Mayur Gosai	Seats (Total: 15)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Intelligence, Online. Golden ID students are not eligible for this section.		
PLGM	Mayur Gosai	Seats (Total: 10)	
	Meets May 28, 2024 - August 16, 2024		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact exst@umd.edu. Part of Graduate Programs in Geospatial Intelligence. Golden ID students are not eligible for this section.		

GEOG687 Applied GEOINT- Regional Geostrategic Issues

Applies a geospatial intelligence (GEOINT) lens when examining the political, military, economic and cultural effects of geography in historical and contemporary terms: specific emphasis is placed on the role of geography in the formulation of regional, e.g., Africa, military/political policy in land power, sea power, and air power. Comprehensive geopolitical theories will be incorporated with geospatial technologies as analytical tools in this course.

PGS1	Jonathon Hathaway	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	LEF 1106	
	Tu 5:30pm - 8:00pm	LEF 1106	Lab
	Must be in Graduate Programs in Geospatial Intelligence. Golden ID students are not eligible for this section.		

PLG1	Jonathon Hathaway	Seats (Total: 25)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Intelligence, Online. Golden ID students are not eligible for this section.		
PLGM	Jonathon Hathaway	Seats (Total: 10)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact exst@umd.edu. Part of Graduate Programs in Geospatial Intelligence. Golden ID students are not eligible for this section.		

GEOG788 **Selected Topics in Geography**

(Perm req)

Readings and discussion on selected topics in the field of geography.

Contact department for information to register for this course.

GEOG789 **Independent Readings**

(Perm req)

Independent reading as arranged between a graduate faculty member and graduate student.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

(Perm req)

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

GEOL Geology Summer 2024

GEOL100 **Physical Geology**

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

WB11	Tracey Centorbi	Seats (Total: 40)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

GEOL110 **Physical Geology Laboratory**

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

WB11	Tracey Centorbi, Matthew Pedersen	Seats (Total: 25)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	Lab

GEOL123 **Causes and Consequences of Global Change**

Cross-listed with: AOSC123. Credit only granted for: AOSC123, GEOG123, or GEOL123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB11	Samantha Kemper	Seats (Total: 40)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

GEOL499 **Special Problems in Geology**

(Perm req)

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL798 **Seminar in Geology**

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**
Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**
Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

GERS German Studies Summer 2024

GERS103 **Intensive Elementary German**

Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERS103 or GERM103. Formerly: GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB11	Regina Haag	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GERS203 **Intensive Intermediate German**

Prerequisite: GERS103; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERM203 or GERS203. Formerly: GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB21	Regina Haag	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

GERS204 **German Grammar Review**

Prerequisite: GERS203; or Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERM204 or GERS204. Formerly: GERM204.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

WB11	Regina Haag	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

GERS301 **Conversation and Composition I: The German-Speaking World**

Prerequisite: GERS204; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM301 or GERS301. Formerly: GERM301.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

WB11	Regina Haag	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

GERS302 **Conversation and Composition II: Current Topics in German-Speaking Society**

Prerequisite: GERS301; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM302 or GERS302. Formerly: GERM302.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

WB21	Regina Haag	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

GVPT Government and Politics Summer 2024

GVPT170 **American Government**

A comprehensive study of national government in the United States.

WB11	Sonia Vargas	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT200 **International Political Relations**

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

WB11	Leo Bauer **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE
WB4Y	Kee Park **Meets July 8, 2024 - July 26, 2024** MTuWThF 10:00am - 11:30am	Seats (Total: 10) ONLINE
YW41	Kee Park **Meets July 8, 2024 - July 26, 2024** MTuWThF 10:00am - 11:30am *Restricted to students in Terp Young Scholars.*	Seats (Total: 20) ONLINE

GVPT201 **Scope and Methods for Political Science Research**

Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.

An introduction to empirical research in political science.

WB11	Ojashwi Pathak **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

GVPT206 **Appetite for Change: Politics and the Globalization of Food**

Credit only granted for: GVPT206 or GVPT289A. Formerly: GVPT289A.

An overview of the major forces transforming the food system--political, economic, technological, environmental--and the political debates surrounding them.

WB11	Taylor Vincent **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

WB11	Seo Chung	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT282 **The Politics of Global Development**

A study of the domestic governmental institutions; processes and problems such as conflict and economic development; and the socio-economic environments that are common to lower-income countries around the world.

WB21	Mingyang Su	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

GVPT306 **Global Environmental Politics**

Prerequisite: GVPT200. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; or permission of BSOS-Government & Politics department.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

Open to all majors for summer term.

WB11	Conny Kazungu Sigel	Seats (Total: 49)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT309J **Topics in International Relations; International Law and Justice**

The study of topics in international relations.

An introduction to and examination of various forms of international law and institutions that implement such laws. Students will investigate topics such as why and how states form international law, what aspects of international relations are impacted by international law, and how to assess the effectiveness of international law and justice institutions.

WB11	Ryan Frazier	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT309R **Topics in International Relations; From Declarations to Actions: The United Nations and Human Rights**

The study of topics in international relations.

This course examines the historical foundations and evolution of UN human rights treaties and the bodies that uphold them. With an eye to modern crises, this course critically evaluates the impact and effectiveness of international human rights law, providing students an enhanced understanding of the complexities involved in protecting and promoting human rights globally.

WB21	Michaela Lansdale	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

GVPT354 **International Development and Conflict Management**

Restriction: Sophomore standing or higher; and must be in one of the following minor programs (International Development and Conflict Management; Global Engineering Leadership; Global Poverty, Global Terrorism Studies) or have permission of the Center for International Development, or must be in the Government and Politics major with permission of the Government and Politics department. Additional information: Students enrolled in MIDCM are expected to take the course during the Fall semester after admission to the program.

Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.

Course is open to all majors in summer.

WB21	Madeline Fleishman	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

GVPT359J **Topics in Comparative Politics; Regime Types: Democracies and Nondemocracies**

The study of topics in comparative politics.

Recommended Prerequisites: GVPT200 and GVPT280 This course will address four main themes: 1) regime change from a democracy to an autocracy; 2) regime change from an autocracy to a democracy; 3) democracies becoming less democratic; and 4) autocracies becoming less autocratic. Not open to students who have completed GVPT459J.

WB11	Youngjoon Lee	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT368G **Special Topics in Government and Politics; Education Equity in Crisis: Cross Cultural Exploration of Corporate Social Responsibility**

The study of topics in government and politics.

Contact department for information to register for this course.

GVPT379M **Topics in American Politics; American Social and Protest Movements**

The study of topics in American politics.

In this course we will discuss the basics of political social and protest movements. Students will learn the details, basic characteristics, techniques and strategies that have been used by American social movements. There will also be a touch of American history in this class in order to provide proper context for past American social movements.

WB11	Landon Blacknall	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

GVPT386 **Experiential Learning**

(Perm req)

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT389 **Experiential Learning II**

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Contact department for information to register for this course.

GVPT898 **Pre-Candidacy Research**

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

HESI Higher Ed, Student Affairs, and International Ed Policy Summer 2024

HESI789T **Special Topics in Higher Education and Student Affairs; Student Affairs Dissertation Mechanics**

(Perm req)

Student Affairs Dissertation Mechanics covers the development of a dissertation in the field of Student Affairs. The course covers the professional and scholarly implications of dissertations in the discipline of student affairs.

WB11	Candace Moore	Seats (Total: 6)
	Meets May 28, 2024 - July 5, 2024	
	TuWTh 10:00am - 3:00pm	ONLINE

HESP Hearing and Speech Sciences Summer 2024

HESP202 **Introduction to Hearing and Speech Sciences**

An introduction to communication sciences and disorders; a survey of the bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

WB11	Sarah Zsak	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

HESP303 **Phonetic transcription**

Prerequisite: Permission of instructor.

An introduction to broad and narrow phonetic transcription, and to physiology of speech production. The primary goal of the course is to provide knowledge about phonetics and the ability to use this knowledge in an applied setting.

PDH1	Rebecca Pereira	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Tu 6:00pm - 8:30pm	ONLINE
	Must be in the Hearing & Speech in the Evening (HESPIE) program, online. Golden ID students are not eligible for this section.	

HESP306 **Anatomy and Physiology of Speech & Hearing**

Prerequisite: Permission of instructor.

This is a 4-credit course focusing on the biological and neurological bases of human speech production and human hearing, namely the anatomy, physiology, and neurology of the vocal/speech mechanism and the hearing mechanism.Specifically, respiration, phonation, resonance, articulation, swallowing, and hearing will be highlighted. A strong understanding of normal anatomy and physiology is essential for the successful evaluation and treatment of patients with speech, language, swallowing and hearing disorders.

PDH1	Adam Redmond, Dawn Marsiglia	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Th 6:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in the Hearing & Speech in the Evening (HESPIE) program, online. Golden ID students are not eligible for this section.	

HESP307 **Speech & Hearing Science**

Prerequisite: HESP303.

Human hearing is exquisitely sensitive, allowing us to hear extremely faint sounds, to follow the sounds of a friend's voice in a loud party, and to appreciate subtle differences between words in the language. This course provides an introduction to the basic physics of sound, the acoustic properties of the sounds of speech, and the mechanisms by which those sounds are perceived by the listener.

PBH1	Kimberly Jenkins	Seats (Total: 40)	
	Meets May 28, 2024 - August 16, 2024		
	M 6:00pm - 8:30pm Class time/details on ELMs	EDU 2119 ONLINE	Discussion
	Must be in the Hearing & Speech in the Evening (HESPIE) program. Golden ID students are not eligible for this section.		

HESP313 **Neurobiology for Speech and Hearing**

This course is designed to provide an understanding of normal neuroanatomy and neurophysiology of speech and language. It will also provide preliminary information regarding pathologic processes, especially those affecting speech and language

PBH1	Meera Rathinasamy	Seats (Total: 40)	
	Meets May 28, 2024 - August 16, 2024		
	W 6:00pm - 8:30pm	TWS 0201	
	Must be in the Hearing & Speech in the Evening (HESPIE) program. Golden ID students are not eligible for this section.		

HESP386 **Experiential Learning**

(Perm req)

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Participation in a language-based, literacy-rich preschool classroom for children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP458 **Global Perspectives in Communication Sciences and Disorders**

Provides students with a supervised and multidisciplinary international service learning (ISL) opportunity for the reciprocal exchange of cultural perspectives, knowledge, and skills. Through interactions with Ghana health and educational professionals as well as patients/clients and their families, students will gain perspective on broader health issues such as determinants of health, health disparities, and the global burden of disease. Students will have learning opportunities in governmental and non-governmental organizations (NGOs) to gain knowledge of and experience with varied healthcare and educational systems in under-resourced communities. In addition to observing and working with Ghana Speech-Language Therapists (SLT) and other rehabilitative professionals, students will assist faculty in the provision of educational workshops for professionals and/or outreach activities for the community.

Contact department for information to register for this course.

HESP499 **Independent Study**

(Perm req)

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP601 **Foundations of Scientific Inquiry**

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of Instructor. Additional information: Course meets over three semesters for the duration of the Masters of Speech-Language Pathology program.

Overview of methods of empirical research used in Communication Sciences and Disorders. The course will focus on identifying, critically analyzing, and writing about empirical research.

WB11	Rochelle Newman **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 15) ONLINE
WB21	Rochelle Newman **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 15) ONLINE

HESP603 **Seminar in Cultural and Linguistic Diversity in Communication Disorders**

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of Instructor. Additional information: Course meets over four semesters for the duration of the Masters of Speech-Language Pathology program.

Overview of cultural and linguistic diversity (CLD) in general, and the impact of CLD on communication, communication disorders, and the professional practice of Speech-Language Pathology

0101	Eusebia Mont **Meets May 28, 2024 - July 5, 2024** F 12:30pm - 2:00pm	Seats (Total: 20) LEF 1171

HESP605 **Assessment & Intervention in Bilingual Populations**

(Perm req)

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program.

Integrates foundational knowledge pertaining to bilingualism in speech-language pathology. This course provides students with a framework for working with individuals from culturally and linguistically diverse backgrounds. This course is designed to educate and train student clinicians to serve as bilingual speech-language pathologists.

WB27	Jose Ortiz	Seats (Total: 22)	
	Meets July 8, 2024 - August 2, 2024		
	F 9:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	

HESP621 **Bilingualism in Children and Adults**

Provides an overview of topics related to bilingualism in both pediatric and adult populations, with an emphasis on application in the field of communication disorders. This course explores theories of bilingual language acquisition, typical and atypical bilingual development, cognition in bilinguals, and the neurological underpinnings of bilingualism. This course will provide practicing clinicians with foundational knowledge related to bilingualism in both pediatric and adult populations. Currently there are no existing courses that provide this content with a focus on communication disorders.

PWH1	Tejal Shah	Seats (Total: 30)	
	Meets May 28, 2024 - June 27, 2024		
	TuTh 6:00pm - 9:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in the Bilingual Speech-Language Pathology for Practitioners, Online. Golden ID students are not eligible for this section.		

HESP625 **Dysphagia**

(Perm req)

Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.

Nature and clinical management of dysphagia as it pertains to different clinical settings for adult and pediatric populations.

WB11	Ed Bice	Seats (Total: 21)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 12:30pm - 3:40pm	ONLINE	

HESP627 **Augmentative and Alternative Communication**

(Perm req)

Recommended: Prior knowledge of Communication and its Disorders is required. Restriction: Permission of BSOS-Hearing & Speech Sciences department. Credit only granted for: HESP639R or HESP627.

Principles, methods, and procedures for categorizing, understanding, and developing augmentative and alternative communication.

A blended course designed to provide an introduction to the principles, methods, and procedures for categorizing, understanding, and developing augmentative and alternative communication (AAC) systems for persons with complex communication needs. The course will meet IN PERSON one day per week on Mondays July 8, July 15, and July 22. All other course work is web online.

0401	Tonya Williams-Walker	Seats (Total: 22)
	Meets July 8, 2024 - July 26, 2024	
	M 3:00pm - 6:00pm	ANS 0402
	Class time/details on ELMs	ONLINE

HESP634 **Anatomy and Physiology of the Auditory and Vestibular Systems**

Prerequisite: Must have completed or be concurrently enrolled in HESP311, HESP407, and HESP411; or permission of instructor. Additional information: Fills a requirement for the Doctoral Program in Clinical Audiology (CAUD). Open to students in other graduate programs, especially NACS.

Comprehensive examination of the anatomy and physiology of the peripheral as well as the central auditory and vestibular systems. Both afferent and efferent pathways will be considered. Applications of basic auditory neuroscience to contemporary clinical audiology practice will be highlighted.

0201	Matthew Goupell	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 9:00am - 11:30am	LEF 0135

HESP638 **Research Practicum; Minor Research Problems**

(Perm req)

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP648B **Clinical Practice in Speech: Therapeutic Procedures**

(Perm req)

Prerequisite: HESP648A. Restriction: Permission of instructor. Repeatable to 6 credits.

Supervised training in the application of clinical methods in the treatment of speech disorders.

0102	Eliza Thompson	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm W 12:00pm - 12:50pm	SQH 1121 SQH 1111
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0103	Eusebia Mont	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm F 12:00pm - 2:30pm	SQH 1121 SQH 1111
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0105	Courtney Overton	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm M 9:30am - 11:00am	SQH 1121 SQH 1125
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0106	Jessica Wertz	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm M 12:00pm - 12:50pm	SQH 1121 SQH 1111
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0107	Ashley Webb	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm W 12:00pm - 12:50pm	SQH 1121 SQH 1107
0172	Kathryn Dow-Burger	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Th 9:00am - 12:00pm	SQH 1121
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	

HESP649A Clinical Practice in Audiology: Diagnostic Procedures

Restriction: Permission of instructor. Repeatable to 6 credits.

Supervised training in the application of clinical methods in the diagnosis of hearing disorders.

0101	Sarah Sohns **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	Christina Shields **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Lisa Rickard **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Lacey Curry **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

HESP649B **Clinical Practice in Audiology - Aural Rehabilitation**

Prerequisite: HESP649A.

A clinical practicum course with individualized instruction, which focuses on the skills necessary to provide intervention and counseling for a wide range of disorders of the auditory system in patients of varying ages and cultural backgrounds. Each student will be various activities across three semesters (Spring YR2, Summer YR2, and Fall YR3). Students may work individually or in pairs to provide hearing loss intervention, auditory training, hearing loss prevention education, and communication strategy training. The student is expected to prepare for each session with a complete clinical plan, educational materials, and counseling strategies. Students must meet with the Audiologist prior to the aural rehabilitation (AR) session to discuss the plan of care. During the visit, the student will perform hearing loss handicap assessments, lead counseling sessions regarding rehabilitative options, make modifications to existing treatment plans/hearing aids, and educate the patient about their hearing. Following the visit, the student will document the encounter according to clinical protocol and ethical standards using the electronic medical records system. All patient-related information will be handled within a secure computer environment which meets HIPAA regulations for protected health information.

0104	Lacey Curry **Meets May 28, 2024 - July 5, 2024** F 1:00pm - 3:00pm	Seats (Total: 20) LEF 0135

HESP659 **Global Perspectives in Communication Sciences and Disorders**

Provides students with a supervised and multidisciplinary international service learning (ISL) opportunity for the reciprocal exchange of cultural perspectives, knowledge, and skills. Through interactions with Ghana health and educational professionals as well as patients/clients and their families, students will gain perspective on broader health issues such as determinants of health, health disparities, and the global burden of disease. Students will have learning opportunities in governmental and non-governmental organizations (NGOs) to gain knowledge of and experience with varied healthcare and educational systems in under-resourced communities. In addition to observing and working with Ghana Speech-Language Therapists (SLT) and other rehabilitative professionals, students will assist faculty in the provision of educational workshops for professionals and/or outreach activities for the community.

Contact department for information to register for this course.

HESP708 **Independent Study**

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP728 **Advanced Clinical Practice in Speech**

Clinical internship in selected off-campus facilities.

0136	Kristin Slawson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 30)
0236	Kristin Slawson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 30)

HESP729 **Advanced Clinical Practice in Audiology**

Clinical internship in selected off-campus facilities.

0101	Nicole Nguyen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

HESP735 **Hearing, Aging, and Public Health**

Prerequisite: HESP606. Credit only granted for: HESP735 or HESP636.

Public health promotes and protects the health of all people and their communities. This course introduces public health concepts and demonstrates how they might be applied or are integral to the practice of Audiology when interacting with older adults. Topics discussed include foundational aspects of epidemiology, aging, chronic conditions common with age and association with hearing, social determinants and accessibility, and health care utilization and policy. Students will be challenged to consider a focus on hearing as it relates to broader and interdisciplinary health services and how this consideration may be incorporated into their clinical practice and experiences. This course is designed for CAUD students who have at least some clinical experience to provide perspective to the topics discussed.

0101	Danielle Powell	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	MW 1:00pm - 4:15pm	SQH 1107

HESP788 **Graduate Research Externship**

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**
Contact department for information to register for this course.

HESP829 **Clinical Internship Residency**

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

I101	Nicole Nguyen	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
I201	Nicole Nguyen	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

HESP859 **Capstone Research Project II**

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Pre- or Corequisite: HESP849.

0112	Sandra Gordon-Salant	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

0118	Matthew Goupell **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0122	Samira Anderson **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

HESP889 **Doctoral Candidacy Research**

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**
Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

HIST History Summer 2024

HIST120 **Islamic Civilization**

Cross-listed with: RELS120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

WB11	Saban Agalar **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

WB11	Michael Ross **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

HIST137 **Pursuits of Happiness: Ordinary Lives in the American Revolution**

Credit only granted for: HIST137 or HNUH218A.

Investigates the search for personal fulfillment unleashed by the American Revolution; explores the many different meanings ascribed to the notion of the "pursuit of happiness" by Americans in the early national period.

WB31	Richard Bell	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

HIST200 **Interpreting American History: Beginnings to 1877**

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

WB21	Robert Chiles	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HIST201 **Interpreting American History: From 1865 to the Present**

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

WB21	Robert Chiles	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HIST219K **Special Topics in History; The Rise and Fall of the British Empire**

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements. This short 3-credit course focuses on the people, places, and policies that shaped the development of the British Empire, the single largest trans-cultural phenomenon in the world since 1500. During our investigations or and virtual visits to political and cultural sites in London students examine how ideology, migration, technology and resistance shaped the expansion and eventual retrenchment of British imperial power in the Atlantic world and the Indian sub-continent. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

HIST269B **Special Topics in Study Abroad II; People and Cultures of Africa**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269C **Special Topics in Study Abroad II; Spanish Culture Civilization and Literature III: Modern Times**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269F **Special Topics in Study Abroad II; Sailors, Soldiers, Slaves: London**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269R **Special Topics in Study Abroad II; Latin American Social Revolutions**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269T **Special Topics in Study Abroad II; London: Cultural Capital**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST304 **The Baddest Decade: The 1970s in American Film and American History**

Cross-listed with: CINE352. Credit only granted for: CINE352, FILM352 or HIST304. Formerly: FILM352.

The history of the United States and of its cinema in the 1970s.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

HIST319A **Special Topics in History; City God, Dragon Boat, and Monkey King: Popular Culture and Society in Imperial China**

Explores popular culture, society, and religion in China, with a focus on the late imperial periods (1368-1911). Together we will read and discuss a variety of (translated) primary sources and secondary sources, including the famous sixteenth-century popular novel The Journey to the West, which features the adventures of the powerful Monkey King in his quest for pleasure, immorality, and salvation. We will raise and address questions about popular culture, vernacular literature, folk religion, ritual operas, and everyday life of ordinary people in late imperial China.

WB31	Ting Zhang	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

HIST319O **Special Topics in History; America Incorporated: Corporate Power from Colonization to today**

History of the business corporation in America from the colonial period until the beginning of the 21st century.

WB41	Brian Sarginger	Seats (Total: 40)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

HIST328E **Selected Topics in History; The Politics of the Apocalypse: Imagining the World's End in Modern Times**

This course will explore apocalyptic concerns from ancient times through the COVID-19 pandemic, focusing on three domains: religion, politics, and technology. The course will also challenge students to see history itself as a bone of contention, a subject of interpretation, rather than a fixed story of progress toward a predetermined end.

WB51	Piotr H Kosicki	Seats (Total: 40)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

HIST329P **Special Topics in History; From Body Snatchers to Jack the Ripper: Scandal and Crime in Victorian Britain**

Learn about the dark side of Victorian life, from Royal scandals and grave robbery to workhouses, lady poisoners, and Jack the Ripper. We will use scandal and crime as a lens to study the larger social/ political/cultural world of the Victorians and their influence on pop culture today.

WB11	Julie Taddeo	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

HIST339W **Special Topics in History; Star Wars and the History of Western Myths in Modern PopularCulture**

Thematic exploration of a topic in history.

George Lucas created a massive science fiction universe with his creation of Star Wars but many of his ideas were drawn directly from historical events and myths. This course explores and examines the historical events and European and American mythologies that influenced the galaxy of Star Wars, and recognizes the different ways popular culture reflects history.

WB61	Nicholas Misukanis	Seats (Total: 40)
	Meets July 29, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HIST357 **Recent America: 1945-Present**

American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

WB51	Howard Smead	Seats (Total: 40)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

HIST360 **Women and the Civil Rights Movement**

Twentieth-century U.S. civil rights movement from the vantage point of women, considering both women's involvement in the legal campaigns and political protests and the impact of civil rights struggles on women's condition, status, and identity.

Also offered as AASP498I and WGSS498M. Credit granted for AASP498I, HIST360, or WGSS498M.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

HIST369B **Special Topics in Study Abroad III; Brazil, Rio Film History and Culture**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST369G **Special Topics in Study Abroad III; Brazilian History**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST369M **Special Topics in Study Abroad III; History of Medieval Italy: The World of Dante**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST386 **Experiential Learning**

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

0150	Julie Taddeo	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

HIST395 **Honors Colloquium I**

(Perm req)

Restriction: Permission of ARHU-History department; and must be in History program.

History and theory: the conceptual underpinnings of the historical discipline. Students evaluate several contrasting theories of history. Prerequisite for other honors courses.

0108	Clare Lyons	Seats (Total: 5)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

HIST469C **Study Abroad Special Topics IV; Spanish Culture Civilization and Literature III: Modern Times**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST619A **Special Topics in History**
Contact department for information to register for this course.

HIST799 **Master's Thesis Research**
Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Contact department for information to register for this course.

HLSA Health Services Administration Summer 2024

HLSA300 **Introduction to Health Policy and Services**

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

WB11	Sunjung Yoon	Seats (Total: 60)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Students must have reliable internet access to complete this course. The class requires team-based projects that require working together. Students traveling who cannot commit to using the Eastern Time Zone for team meetings should not enroll.	

HLSA688 **Independent Study**

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

0102	Lori Simon-Rusinowitz	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0103	Neil Sehgal	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

0104	Dahai Yue **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0106	Aryn Phillips **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0111	Rebecca Gourevitch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0112	Xuanzi Qin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0204	Dahai Yue **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0206	Aryn Phillips **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0211	Rebecca Gourevitch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0212	Xuanzi Qin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
PLH1	Negin Fouladi **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.*	Seats (Total: 10) ONLINE

PLP1	Negin Fouladi	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Health Administration, Online. Golden ID students are not eligible for this section.	

HLSA702 **Policy and Politics of Health**

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

PLH1	Leandro Echt	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.	

HLSA730 **Healthcare Human Resources**

Provides an introduction to the management of human resources in the healthcare setting using basic human resources management doctrine common to all industries. Content includes principles and methods of personnel including employment, recruitment, selection, retention, training and development, compensation including wage and salary administration performance appraisal, job analysis and labor relations.

PLP1	Melvin Seale	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Health Administration, Online. Golden ID students are not eligible for this section.	

HLSA775 **Health Services and Policy Research Methods**

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Survey of health services and policy research methods, including conceptualization, measurement, survey sampling, literature review, different research designs, causal inference, data analysis, and interpretation of basic statistics. This is an introductory course in research methods designed for master's students in the School of Public Health.

PLH1	Negin Fouladi **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.*	Seats (Total: 30) ONLINE
PLP1	Negin Fouladi **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Health Administration, Online. Golden ID students are not eligible for this section.*	Seats (Total: 25) ONLINE

HLSA778 **Practical Experience in Public Health**

Practical experience providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the experience will depend upon the student's background and career goals.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization.Setting of the internship will depend upon the student's background and career goals

I101	Melvin Seale **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I202	Melvin Seale **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.*	Seats (Total: 20) ONLINE
PLP1	Negin Fouladi **Meets May 30, 2024 - August 18, 2024** Class time/details on ELMs *Must be in Health Administration, Online. Golden ID students are not eligible for this section.*	Seats (Total: 20) ONLINE

HLSA786 **Capstone Project in Public Health**

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0102	Lori Simon-Rusinowitz **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0104	Dahai Yue **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Aryn Phillips **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0107	Luisa Franzini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Stephen Thomas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0110	Melvin Seale **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0111	Rebecca Gourevitch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0112	Xuanzi Qin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0113	Kellee White Whilby **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0204	Dahai Yue **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0206	Aryn Phillips **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0209	Jie Chen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0210	Melvin Seale **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0211	Rebecca Gourevitch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0212	Xuanzi Qin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0213	Kellee White Whilby **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
PLH1	Negin Fouladi **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.*	Seats (Total: 20) ONLINE
PLP1	Negin Fouladi **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs *Must be in Health Administration, Online. Golden ID students are not eligible for this section.*	Seats (Total: 20) ONLINE

HLSA799 **Master's Thesis Research**

0102	Lori Simon-Rusinowitz **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)

0104	Dahai Yue **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0106	Aryn Phillips **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0110	Kellee White Whilby **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0111	Rebecca Gourevitch **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0112	Xuanzi Qin **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

0203	Neil Sehgal **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0204	Dahai Yue **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0206	Aryn Phillips **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0210	Kellee White Whilby **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0211	Rebecca Gourevitch **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0212	Xuanzi Qin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

HLSA898 **Pre-Candidacy Research**
Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

Contact department for information to register for this course.

HLTH Health Summer 2024

HLTH140 **Personal and Community Health**

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

WB31	James Butler	Seats (Total: 50)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

HLTH200 **Introduction to Research in Community Health**

Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

Restriction waived; open to all students.

WB21	Azieb Kidanu	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HLTH230 **Introduction to Health Behavior**

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

WB21	Zahra Saboori	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HLTH234 **Global Health Messages: Understanding Exposure & Impact**

Restriction: Must not be in the Community Health program.

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

WB11	Angshuman Kashyap **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

HLTH234H **Global Health Messages: Understanding Exposure & Impact**

(Perm req)

Restriction: Must not be in the Community Health program.

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

WB11	Angshuman Kashyap **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

HLTH366 **Behavioral and Community Issues in Public Health**

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

WB31	Evelyn King-Marshall **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

HLTH377 **Human Sexuality**

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

WB41	Jenna Messman **Meets July 8, 2024 - July 26, 2024** Class time/details on ELMs	Seats (Total: 130) ONLINE

HLTH389 **Topical Investigations**

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH389I **Topical Investigations; An International Perspective of Violence: Comparing Italy, France and the U.S.: Italy**

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH399 **Community Health Field Work**

Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework.

Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework. Most field work experiences will be off-campus and require 45 work hours per registered credit during the semester. Students can use the Public Health Practice database to find a qualifying internship or request new site approval for their internship. For site approval, permission to enroll and guidance, contact Ms Tracy Kennedy (kennedyt@umd.edu).

WB11	Tracy Kennedy	Seats (Total: 30)
	Meets May 23, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HLTH432 **Medical Terminology**

Credit only granted for: HLTH432 or HLTH498T. Formerly: HLTH498T.

Provides the framework for understanding medical language and terminology used by health care professionals. Students will gain an understanding of the rules of building and analyzing medical terms from word origins and will learn correct pronunciation, definitions, and spelling for all of the body systems, major pathological conditions, common disorders, prescribed medications, and more. Whether a student is interested in learning more about the medical field or they want to acquire practical knowledge for future personal use, this course provides the foundation for understanding the language of medicine.

PLB1	Katherine Sharp	Seats (Total: 1)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

WB21	Katherine Sharp	Seats (Total: 125)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

HLTH452 **Global Health and Social Justice**

Jointly offered with: HLTH602. Credit only granted for: HLTH452 or HLTH602.

Evaluates the relationship between social justice and population health through critical discourse analysis of social determinants of health and applications of community-based methods for reducing population health inequities within and across national borders. The class aims to stimulate students' critical analysis to identify, describe, measure and apply consequences of injustices in population ill-health exposures and practices (policies, interventions and services). Students will apply critical thinking about how social injustices create preventable health disparities, unequal social determinants, poor environmental exposures and diseases among vulnerable populations in much of low-income countries.

WB21	Samantha Smith	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Tu 1:00pm - 2:15pm	ONLINE
	Class time/details on ELMs	ONLINE

HLTH471 **Women's Health**

Restriction: Must be in a program in the Harriet Tubman Department of Women, Gender, and Sexuality Studies; or must be in a major within SPHL-Behavioral & Community Health department. Cross-listed with: WGSS471. Credit only granted for: HLTH471, WMST471, or WGSS471.. Formerly: WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

PLB1	Tracy Zeeger	Seats (Total: 5)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	
WB31	Tracy Zeeger	Seats (Total: 50)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE
	For the summer, restriction is not in effect. Students of all majors are eligible to register and take this course.	

HLTH491 **Community Health Internship**

Prerequisite: Minimum grade of C- in HLTH420 and HLTH490. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.

Integrating theory with practice in a community health setting.

WB11	Tracy Kennedy	Seats (Total: 50)	
	Meets May 23, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

HLTH602 **Global Health and Social Justice**

Jointly offered with: HLTH452. Credit only granted for: HLTH452 or HLTH602.

Evaluates the relationship between social justice and population health through critical discourse analysis of social determinants of health and applications of community-based methods for reducing population health inequities within and across national borders. The class aims to stimulate students' critical analysis to identify, describe, measure and apply consequences of injustices in population ill-health exposures and practices (policies, interventions and services). Students will apply critical thinking about how social injustices create preventable health disparities, unequal social determinants, poor environmental exposures and diseases among vulnerable populations in much of low income countries.

WB21	Samantha Smith	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Tu 1:00pm - 2:15pm	ONLINE	
	Class time/details on ELMs	ONLINE	

HLTH665 **Health Behavior I: Theoretical Foundations of Health Behavior**

Provides students with an understanding of the application of the social and behavioral sciences to health; addressing behavioral, social, and cultural factors that influence individual and population health and health disparities over the life course. Public health issues related to individuals and populations will be examined in terms of social and behavioral theories, empirical research findings, and methodologies.

PLB1	Dina Borzekowski	Seats (Total: 10)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

HLTH674 **Health Literacy**

Recommended: Health communication, communication, journalism, literacy, or cognitive or information sciences classes. Credit only granted for: HLTH688L or HLTH674. Formerly: HLTH688L.

Introduction to health literacy research, practice, and skills. The course will develop students' understanding of how health literacy is both a barrier and an asset for health. We will also examine how health literacy affects a wide range of outcomes. Students will learn the basics of health literacy concepts, models, and research methods, and discuss health literacy research and evaluation in clinical, public health, and community settings. Students will study key health topics, populations, and contexts for health literacy research and practice. The course will describe professional skills necessary for effective public health communication practice and provide opportunities to practice the skills. The implications of research for public health practice, policy, and consumer/patient interventions and behavior will be integrated so that public health practitioners and researchers are prepared to address health literacy in their future work.

PLB1	Catherine Maybury **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 5) ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	
WB11	Catherine Maybury **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

HLTH688 **Special Problems in Health Education**

(Perm req)

Contact department for information to register for this course.

HLTH778 **Practical Experience in Public Health**

Practical Experience seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practical experience will depend upon the student's background and career goals.

0101	Evelyn King-Marshall **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
PLB1	Evelyn King-Marshall **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 5) ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

HLTH786 **Capstone Project in Public Health**

(Perm req)

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 **Master's Thesis Research**
Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

IMMR Immigration Studies Summer 2024

IMMR200 **Introduction to Immigration and Migration Studies**

Introduces concepts and theoretical interpretations about the causes of international migration; provides an historical overview of the main flows of immigration to the U.S.; analyzes economic, political, social, and cultural aspects that impact the immigrants' settlement process.

WB31	Robert Chiles	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

INAG Institute of Applied Agriculture Summer 2024

INAG110 **Oral Communication**

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, and verbal and nonverbal communications affect the communication process as it emerges in the workplace. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

WB11	Amy Fisher	Seats (Total: 16)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 9:00am - 12:25pm	ONLINE
WB12	George Kurtzweil	Seats (Total: 16)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 12:30pm - 3:55pm	ONLINE

WB21	Chelsea Mays-Williams	Seats (Total: 16)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 9:00am - 12:10pm	ONLINE

INAG288 **Internship**

On-site internship training in the student's major area of study. Students must complete a minimum of 320 working hours at an approved work site. Course work also includes weekly written assignments and a site visit assessment.

Contact department for information to register for this course.

INFM Information Management Summer 2024

INFM600 **Information Environments**

Restriction: Permission of INFO-College of Information Studies.

An exploration of various models and methodologies used to capture and deploy internal and external information and knowledge in a number of settings; organizational analysis in terms of information creation, flow, sharing, conservation, and application to problem solving; internal and external influences on the management of information and knowledge; various information flows; information management in a variety of settings.

WB11	Waqas Shah	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST Information Studies Summer 2024

INST104 **Design Across Campus**

What is design, who does it, and how is it done? There is no one answer to this question--it depends on who you ask. The answers to these questions vary across disciplines and across the University campus. This course, designed with modules from contributors in UMD programs including Information Studies, Human-Computer Interaction, Graphic Design, Immersive Media Arts, Journalism, Architecture, Landscape Architecture, Engineering, and Policy, will introduce students to the goals and values, approaches, skills, and practices of diverse fields of design. It will enable students to identify grand challenges in design and serve as a sorting hat to help students find a design practice that matches their own values, approaches, skills and goals.

WB11	Marilyn Iriarte Santacruz	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 4:00pm - 5:15pm	ONLINE
	Class time/details on ELMs	ONLINE

INST126 **Introduction to Programming for Information Science**

Prerequisite: Math placement of STAT100 or higher. Restriction: Must not have completed INST326; and must be in Information Science, Technology and Information Design, or Social Data Science programs.

An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.

WB11	Aric Bills **Meets May 28, 2024 - August 16, 2024** MW 9:30am - 11:45am	Seats (Total: 40) ONLINE

INST201 **Introduction to Information Science**

Credit only granted for: INST201 or INST301. Formerly: INST301.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

WB11	Fabian Faccio **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Fabian Faccio **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST204 **Designing Fair Systems**

Credit only granted for: INST208D or INST204. Formerly: INST208D.

Reviews how specific values are built into different automated decision-making systems as an inevitable result of constructing mechanisms meant to produce specific outcomes. These values create differential outcomes for the different people enmeshed in these systems, but both these values and these systems can be changed to support different values and different outcomes. The class serves as an introduction to the emerging field of algorithmic bias that bridges the disciplines of information science, computer science, law, policy, philosophy, sociology, urban planning, and others.

WB21	Ido Sivan-Sevilla **Meets July 8, 2024 - August 16, 2024** TuF 10:30am - 12:00pm	Seats (Total: 40) ONLINE

INST210 **The Nuts & Bolts of Getting Hired**

Restriction: Must be in the Information Science program, Technology and Information Design program, or Social Data Science program. Credit only granted for: INST208C or INST210. Formerly: INST208C.

Have you thought about finding an internship, getting a job, or starting your career? Perhaps you're confused about how to begin. Welcome to The Nuts and Bolts of Getting Hired, where you'll learn the skills necessary to develop your professional tool kit and obtain the internship or job that can help you build the career you want. This course will help you prepare for the next step in your career by exploring the following topics: Identifying your career goals, mastering the skills of crafting a professional resume, effective interviewing, strategic networking, and professional communication.

WB11	Kibbi Henderson **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST309 **Independent Study in Information Science**

(Perm req)

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

INST311 **Information Organization**

Prerequisite: Minimum grade of C- in PSYC100 or SOCY105. Restriction: Must be in Technology and Information Design or Information Science program.

Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.

WB11	Ryan O'Grady **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Chad Doran **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST314 **Statistics for Information Science**

Prerequisite: Minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in STAT100, and MATH115 (or higher). Restriction: Must be in Information Science or Social Data Science program.

Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.

WB11	Matthew Patrick **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs *For more information about the schedule, please review the syllabus and/or email the instructor.*	Seats (Total: 30) ONLINE
WB12	Scott Jackson **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

INST326 **Object-Oriented Programming for Information Science**

Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program.

An introduction to programming, emphasizing understanding and implementation of applications using object-oriented techniques. Topics to be covered include program design and testing as well as implementation of programs.

WB21	Matthew Patrick **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE
WB22	Matthew Patrick **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE

INST327 **Database Design and Modeling**

Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program. Credit only granted for: INST327 or BMGT402.

Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.

WB21	Pamela Duffy	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 9:30am - 11:45am	ONLINE
	Class time/details on ELMs	ONLINE
	Participation in the Tues/Thurs 9:30am-11:45am lab sessions (online) is REQUIRED for this course.	
WB22	Iskander Lou	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	MW 1:00pm - 3:15pm	ONLINE
	Class time/details on ELMs	ONLINE

INST335 **Organizations, Management and Teamwork**

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in PSYC100. Restriction: Must be in Information Science program.

Examines principles, methods and types of leadership with an emphasis on goal setting, motivation, problem solving, and conflict resolution. Examines principles of developing teams and managing team projects through planning and execution, including estimating costs, managing risks, scheduling, staff and resource allocation, communication, tracking, and control. Trains students to recognize and capitalize on opportunities to use information to increase efficiency, improve performance, and support innovation within teams and organizations. Focuses on strategic use of emerging technologies and new information resources to execute information-enabled change.

WB21	Kibbi Henderson	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	TuTh 3:00pm - 5:30pm	ONLINE
	Class time/details on ELMs	ONLINE

INST346 **Technologies, Infrastructure and Architecture**

Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST326 and INST327. Restriction: Must be in the Information Science program; and must have earned a minimum of 60 credits. Credit only granted for: INST346 or BMGT405.

Examines the basic concepts of computer hardware, systems software, networking, client/server architectures, cloud computing, distributed systems, and high performance computing as applied to information rich domains. Technology and architectures will be discussed within the contexts of solving social issues, supportingscience, and conducting business operations. Current computing topics such as web environments, IoT, security, management, and policy will also be reviewed.

0101	Donal Heidenblad	Seats (Total: 40)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	Th 10:00am - 10:50am	HBK 0302J	Discussion

INST352 **Information User Needs and Assessment**

Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST311. Restriction: Must be in Technology and Information Design or Information Science programs.

Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.

WB21	LaRia Rogers	Seats (Total: 55)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
WB22	Miranda Downey	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	TuTh 1:00pm - 3:15pm	ONLINE	

INST364 **Human-Centered Cybersecurity**

Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST327, STAT100, MATH115, and PSYC100. Restriction: Must be in the Information Science program; or must be in the Information Risk Management, Ethics, and Privacy Minor.

Cybersecurity is fundamentally a problem of human interaction with technology, but its technical challenges are better understood than its human challenges. This course is designed to give you an overview of human interactions with cybersecurity technology, from users to system designers. Using the information gleaned in this course, you should be able to make better predictions about how people react to cybersecurity policies and tools, and how those reactions shape organizational behavior. The earlier part of the course focuses on explanations for behavior, while the later parts of the course focus more on the development and evaluation of tools for assisting people in cybersecurity.

WB21	Padric Mylod	Seats (Total: 50)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

INST380 **Technology and Information Design: Do Good Now**

Prerequisite: Minimum grade of C- in INST201, INST126, STAT100; minimum grade of C- from (PSYC100, SOCY105). Restriction: Must be in the Technology and Information Design program. Credit only granted for: ARHU380, BSOS388B, PLCY388D, or PLCY380.

Climate change. Poverty. Racism. Pressing social issues are big, complex, and difficult. They can feel overwhelming to understand and impossible to address. You might care deeply about an issue, and want to make a difference, but don't know where to start. Sometimes you might not even try. This course will equip and empower you to delve deep into understanding a social issue of your choosing. Through course materials and activities, you'll try out your changemaker muscles and mindsets. Our goal is that this course will empower you to be an informed, engaged citizen who contributes to your community with and beyond your profession. Along the way, we'll address questions like, "What is social change?" and "What happens when our actions have unintended consequences?" We'll talk about the importance of understanding, empathy, agency, and community, and reflect on how these concepts relate to us as individuals.

WB11	Ido Sivan-Sevilla	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	TuF 10:30am - 12:00pm	ONLINE

INST389 **Supervised Internship in Information Science**

Course will provide students with the knowledge, skills, and experiences that will help shape their goals as they begin their successful high-impact Information Career. It will prepare them to work an in an environment in which suitability for high-status positions is not determined by specific skills, but rather by ability to take initiative in complex, dynamic situations. Students must have an internship arranged before enrolling.

Prerequisite: Minimum grade of C- in MATH115 or higher; minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in (PSYC100, SOCY105, or BSOS233). Restriction: Must be in the Information Science program, Technology and Information Design program, or Social Data Science program. Repeatable to 6 credits. Course will provide students with the knowledge, skills, and experiences that will help shape their goals as they begin their successful high-impact Information Career. It will prepare them to work an in an environment in which suitability for high-status positions is not determined by specific skills, but rather by ability to take initiative in complex, dynamic situations. Students must have an internship arranged before enrolling.

WB11	Galina Reitz	Seats (Total: 25)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST414 **Data Science Techniques**

Prerequisite: Minimum grade of C- in MATH115 (or higher) and STAT100; and a minimum grade of C- from INST126 or GEOG276; and a minimum grade of C- from one of the following (INST201, INST301, or BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from BSOS233 or INST314. Recommended: Minimum C- in MATH140 and (INST326, BSOS326, or GEOG376). Restriction: Must be in Information Science or Social Data Science program.

An exploration of how to extract insights from large-scale datasets. The course will cover the complete analytical funnel from data extraction and cleaning to data analysis and insights interpretation and visualization. The data analysis component will focus on techniques in both supervised and unsupervised learning to extract information from datasets. Topics will include clustering, classification, and regression techniques. Through homework assignments, a project, exams and in-class activities, students will practice working with these techniques and tools to extract relevant information from structured and unstructured data.

WB21	Brian Gillikin	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST447 **Data Sources and Manipulation**

Prerequisite: Minimum grade of C- in STAT100 and INST327; and a minimum grade of C- from one of the following (INST201, INST301, BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from BSOS233 or INST314; and a minimum grade of C- from one of the following (BSOS331, GEOG273, or INST326). Restriction: Must be in Information Science or Social Data Science program.

Examines approaches to locating, acquiring, manipulating, and disseminating data. Imperfection, biases, and other problems in data are examined, and methods for identifying and correcting such problems are introduced. The course covers other topics such as automated collection of large data sets, and extracting, transforming, and reformatting a variety of data and file types.

WB11	Nekabari Sigalo	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST451 **Consumer Health Informatics**

Prerequisite: Minimum grade of C- in INST126, INST201 or STAT100; and minimum grade of C- from PSYC100 or SOCY105. Restriction: Must be in the Information Science program or Technology and Information Design program. Credit only granted for: INST408A or INST451. Formerly: INST408A.

Explores people's health-related information needs and whether, how, and why people seek out and use (or do not seek out and use) health information and the types of health information they find useful. We will also cover the important and interrelated topics of information avoidance, health behaviors, health literacy, digital health literacy, doctor-patient communication, and patient-to-patient communication through support groups and online communities. Throughout the course, we will also focus on the important concept of health justice - a world in which everyone has an adequate and equitable capability to be healthy.

WB21	Jane Behre	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST453 **Project Management for Information Science**

Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453. Formerly: INST408O.

Provides a comprehensive overview of project management, focusing on the needs of information resources (IR). The course covers the concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, tracking, control, and other aspects of successful project completion.

WB11	Arjav Shah	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST462 **Introduction to Data Visualization**

Prerequisite: Minimum grade of C- in STAT100; minimum grade of a C- from one of the following (INST201, INST301, or BSOS233); minimum grade of C- in INST126 or GEOG276; a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, SOCY100, or SOCY105); and a minimum grade of C- from BSOS233 or INST314. Restriction: Must be in Information Science or Social Data Science program.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

WB11	Jennifer Golbeck	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST466 **Technology, Culture, and Society**

Prerequisite: Minimum grade of C- in INST201 or INST301; and minimum grade of C- in PSYC100 or SOCY105. Restriction: Must be in the Information Science program or Technology and Information Design program.

Individual, cultural, and societal outcomes associated with development of information & communication technologies (ICTs), including pro- and anti-social factors. Unpacking how gender, race, ethnicity, sexual orientation, disabilities, and political affiliations affect consumption and production of online experiences. Unpacking how structures of dominance, power and privilege manifest at individual, institutional and cultural levels.

WB21	Angela Rodgers-Koukoui	Seats (Total: 50)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST490 **Integrated Capstone for Information Science**

(Perm req)

Prerequisite: Minimum grade of C- in INST311, INST314, INST326, INST327, INST335, INST346, INST352, and INST362. Restriction: Must be in Information Science program; and must have earned a minimum of 90 credits; and permission of INFO-College of Information Studies.

The capstone provides a platform for Information Science students where they can apply a subset of the concepts, methods, and tools they learn as part of the Information Science program to addressing an information problem or fulfilling an information need.

0101	Jesse Klein **Meets May 28, 2024 - August 16, 2024** W 11:00am - 1:45pm	Seats (Total: 25) HBK 0302J
WB11	Nitzan Koren **Meets May 28, 2024 - August 16, 2024** MW 2:00pm - 3:30pm	Seats (Total: 25) ONLINE
WB12	Jesse Klein **Meets May 28, 2024 - August 16, 2024** TuTh 3:00pm - 4:30pm	Seats (Total: 25) ONLINE

INST600 **Foundations for Librarians and Information Professionals**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC791 or INST600. Formerly: LBSC791.

An introduction to the field of library and information science (LIS), its history, and future direction that provides students with an understanding and appreciation of the nature and functions of the profession(s) they have entered. The focus is on core concepts underlying the LIS discipline, with particular emphasis on professional ethics/values, diversity, equity, inclusion and accessibility (DEIA), and the ways in which technology has shaped and continues to shape the field.

WB11	Ryan O'Grady **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

INST608A **Special Topics in Information Studies; Spatial Representation and Analysis for Library and Archives**

Covers special topics in information studies.

This course is all about putting persons, places and things found in archival collections on a map. You will learn the processes used to convert a hardcopy map into a digital map that can be used with layers of other information to represent the spatial relationships between all of the elements. Along the way you will learn the definitions and methods of such techniques as geocoding, geolocating, georeferencing, vectorization, and spatial analysis. You'll use software to get hands -on experience using these techniques to create new ways of providing access to archival collections.

WB11	Richard Marciano	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST608C **Special Topics in Information Studies; Network Representation and Analysis for Library and Archives**

Covers special topics in information studies.

Graphs are very powerful tools for looking at relationships between persons, places, and events found in library and archival collections. In this course you will learn about techniques such as entity identification, graph modeling, graph analysis, computational biographies, and graph visualization. You'll learn what these techniques are and how to use them to discover relationships that would otherwise be hidden away in archival and library collections.

WB11	Richard Marciano	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST608G **Special Topics in Information Studies; Generative AI and Large Language Models for Library and Archives**

Covers special topics in information studies.

Artificial Intelligence (AI) it seems is being used everywhere to help with almost every challenge. ChatGPT, Gemini, LLaMa, etc. are being talked about everywhere. These are examples of generative AI and Large Language Models. This course will explain what these technologies are and explore potential new uses of generative AI technologies to enhance retrieval, description, and qualitative analysis of library and archival collections. We will also explore the limitations and risks of these technologies. You will work with real-world collections.

WB11	Richard Marciano	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST620 **Diverse Populations, Inclusion, and Information**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

WB11	Renee Hill	Seats (Total: 30)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST702 **Advanced Usability Testing**

Prerequisite: Permission of instructor; or (INFM605 or INST631). Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM702 or INST702. Formerly: INFM702.

Usability test design, implementation and analysis for computer and mobile devices; special attention will be paid to remote testing. Students will learn the complex process of coordinating and facilitating a usability test and how to synthesize test data into reports appropriate for various audiences.

WB11	Tom Brinck	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST709 **Independent Study**

(Perm req)

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

Contact department for information to register for this course.

INST754 **Data Integration and Preparation for Analytics**

Prerequisite: INFM600, INST630, and INST733; and (INFM603 or JOUR652) ; or permission of INFO-College of Information Studies.

Provides a comprehensive overview of the end-to-end processes for acquiring, ingesting, managing, cleansing, transforming and integrating data sources for the purposes of reporting andanalytics. Concepts include data acquisition, data streaming, data staging, standardization, data quality, concept and metadata harmonization, transformation, and data modeling. Students will learn how ingested data sets can be transformed, integrated, and prepared for analytical use.

WB11	David Patrick	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

INST760 **Data Visualization**

Prerequisite: INST630; or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST760 or INST728V. Formerly: INST728V.

Introduction to the science and technology of data visualization--the graphical representation of data to aid understanding--and includes both theoretical foundations as well as practical applications of integrated visualization techniques on real-world problems. Application of these techniques to state-of-the-art problem domains within research, society, and industry.

WB21	Zach Drake	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

INST787 **Museum Scholarship Practicum**

(Perm req)

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, ANTH857, HIST811. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I101	Paul Jaeger	Seats (Total: 12)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

INST799 **Master's Thesis Research**
Contact department for information to register for this course.

INST818 **Individual Research Experience**

Pre-candidacy individual research experience directed by a faculty member.

0210	Diana Marsh	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

INST898 **Pre-Candidacy Research**
Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research; Doctoral Dissertation**

(Perm req)

Contact department for information to register for this course.

JAPN Japanese Summer 2024

JAPN101 **Elementary Japanese I**

Prerequisite: Must have appropriate World Language Placement Test (WLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

WB11	Makiko Inoue	Seats (Total: 10)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 9:00am - 10:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

JAPN102 **Elementary Japanese II**

Prerequisite: Minimum grade of C- in JAPN101; or appropriate World Language Placement Test (WLPT) score.

Continued introduction to the basic spoken patterns of contemporary Japanese.

WB21	Kumiko Akikawa	Seats (Total: 10)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 9:00am - 10:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

JOUR Journalism Summer 2024

JOUR130 **Self-Presentation in the Age of YouTube**

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

WB31	Amber Moore	Seats (Total: 24)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	
WB32	Alison Burns	Seats (Total: 24)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	

JOUR175 **Media Literacy**

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

This is a completely online course with both synchronous and asynchronous elements. Students are required to login at the time specified for the discussion section but additional work outside of this time is required as well.

WB31	Jodi Friedman	Seats (Total: 20)	
	Meets May 28, 2024 - June 14, 2024		
	Tu 5:00pm - 6:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	
	Mandatory synchronous online meetings on Tuesday 5/28, Tuesday 6/4, and Tuesday 6/11, from 5:00pm - 6:30pm EST.		

JOUR199 **Survey Apprenticeship; Survey Apprenticeship**

(Perm req)

College-monitored experience in approved mass-communications organizations and industries.

I101	Karen Denny	Seats (Total: 50)	
	Meets May 28, 2024 - July 5, 2024		
	Contact instructor or department for details.		

JOUR201 **News Writing and Reporting I**

(Perm req)

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

WB11	Carole Lee	Seats (Total: 17)	
	Meets May 28, 2024 - July 5, 2024		
	MW 10:00am - 11:45am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	This course will meet synchronously on Mondays and Wednesday. Students will be required to log in to the course on Tuesdays and Thursdays, but not at a specified time. More details will be provided on the first day of the course.		

JOUR282 **Beyond Facebook: How Social Media are Transforming Society, Culture, Business and Politics**

Credit only granted for: JOUR289F or JOUR282. Formerly: JOUR289F.

How has social media changed the world, and how has the world changed social media? This course explores how social media has influenced relationships, culture, industry, politics, and the information environment, as well as how significant global events and technological advancements have contributed to the evolution of social media. This course gives students a broad contextual understanding of social media that they may apply in their daily lives as well as future academic inquiry.

WB41	Denitsa Yotova **Meets July 8, 2024 - July 26, 2024** Class time/details on ELMs	Seats (Total: 23) ONLINE
WB61	Robin Sundaramoorthy **Meets July 29, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 23) ONLINE

JOUR352 **Interactive Design and Development**

(Perm req)

Prerequisite: JOUR152; and JOUR201; and must have completed or be concurrently enrolled in JOUR262 or JOUR370. Or permission of JOUR-Philip Merrill College of Journalism. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Jointly offered with JOUR652. Credit only granted for: JOUR352 or JOUR652.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools, JavaScript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.

WB11	Adam Marton **Meets May 28, 2024 - July 5, 2024** MW 10:00am - 11:45am Class time/details on ELMs	Seats (Total: 13) ONLINE ONLINE	 Discussion
	The Monday class will be held on Zoom synchronously. The Wednesday class will be a lab that students complete themselves during the class time but we will not meet on Zoom (though the instructor will be available on Zoom during that time to help).		

JOUR389F **News Coverage of Special Topics; Political Convention Coverage**

(Perm req)

Advanced training and practice in writing and reporting news in one specialized field of interest.

Prerequisite: JOUR320 or JOUR360. National political conventions happen every four years, and some reporters wait years hoping to get a shot to cover one. This course will provide you with one week of preparatory work gathering delegate information and conducting other pre-convention reporting for one of the two major parties and turning it into prose, graphics, video, social media, etc., then almost a week of on-the-ground reporting at one of the two conventions.

I501	Alanna Kopania, James Carroll	Seats (Total: 4)
	Meets July 8, 2024 - July 19, 2024	
	Class time/details on ELMs Contact instructor or department for details.	ONLINE
	The dates cover the preparation and attendance at the Republican National Convention in Milwaukee. Housing in the convention cities, as well as transportation to and from the convention cities, will be provided.	

JOUR389G **News Coverage of Special Topics; Political Convention Coverage II**

(Perm req)

Advanced training and practice in writing and reporting news in one specialized field of interest.

Prerequisite: JOUR320 or JOUR360. National political conventions happen every four years, and some reporters wait years hoping to get a shot to cover one. This course will provide you with one week of preparatory work gathering delegate information and conducting other pre-convention reporting for one of the two major parties and turning it into prose, graphics, video, social media, etc., then almost a week of on-the-ground reporting at one of the two conventions.

I601	Joshua Davidsburg, James Carroll	Seats (Total: 6)
	Meets August 12, 2024 - August 23, 2024	
	Class time/details on ELMs Contact instructor or department for details.	ONLINE
	The dates cover the preparation and attendance at the Democratic National Convention in Chicago. Housing in the convention cities, as well as transportation to and from the convention cities, will be provided.	

JOUR396 **Supervised Internship**

(Perm req)

Prerequisite: Must have earned a grade of C- or better in JOUR201. Restriction: Must be a major in the JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. To enroll, students must do the following: Fill out the internship proposal form, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted.

I101	Karen Denny	Seats (Total: 80)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

JOUR398 **Independent Study**

Individual projects in journalism.

Contact department to make arrangements. Consult in JRN 1117 for section code corresponding to faculty member.

Contact department for information to register for this course.

JOUR459A **Special Topics in Journalism; Sport Globalization: NBA Africa**

Issues of special concern and current interest. Open to all students.

Cross-listed with JOUR779A. Credit only granted for JOUR459A or JOUR779A.

Contact department for information to register for this course.

JOUR502 **Basics of Writing and Editing**

(Perm req)

Restriction: Approval of the College of Journalism.

This skills-based immersion into journalism teaches the foundations of journalism - reporting and writing news. It explores how news is delivered through digital and print publications and how editors and reporters make judgments on what constitutes a story worth pursuing. Students are introduced to reporters' ethics, to the construction of short news stories and basic interviewing and research techniques and to Associated Press style points.

WB61	Christine Harvey	Seats (Total: 18)
	Meets July 29, 2024 - August 16, 2024	
	MTuWTh 5:00pm - 6:50pm	ONLINE
	Class time/details on ELMs	ONLINE

JOUR652 **Interactive Design and Development**

Prerequisite: Master of Journalism students must have taken or be concurrently enrolled in JOUR620; or must have permission of the Philip Merrill College of Journalism. Recommended: Multimedia Journalism certificate students are encouraged to take or be concurrently enrolled in JOUR604. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR652 or JOUR352.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools and JavaScript libraries to create charts, timelines and maps to tell stories.

WB11	Adam Marton	Seats (Total: 5)	
	Meets May 28, 2024 - July 5, 2024		
	MW 10:00am - 11:45am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	The Monday class will be held on Zoom synchronously. The Wednesday class will be a lab that students complete themselves during the class time but we will not meet on Zoom (though the instructor will be available on Zoom during that time to help).		

JOUR689F **News Coverage of Specialized Topics; Political Convention Coverage**

(Perm req)

Advance training and practice in writing and reporting news in on specialized field of interest.

Prerequisite: JOUR620 or JOUR660. National political conventions happen every four years, and some reporters wait years hoping to get a shot to cover one. This course will provide you with one week of preparatory work gathering delegate information and conducting other pre-convention reporting for one of the two major parties and turning it into prose, graphics, video, social media, etc., then almost a week of on-the-ground reporting at one of the two conventions.

I501	James Carroll, Alanna Kopania	Seats (Total: 5)	
	Meets July 8, 2024 - July 19, 2024		
	Class time/details on ELMs Contact instructor or department for details.	ONLINE	
	The dates cover the preparation and attendance at the Republican National Convention in Milwaukee. Housing in the convention cities, as well as transportation to and from the convention cities, will be provided.		

JOUR689G **News Coverage of Specialized Topics; Political Convention Coverage II**

(Perm req)

Advance training and practice in writing and reporting news in on specialized field of interest.

Prerequisite: JOUR620 or JOUR660. National political conventions happen every four years, and some reporters wait years hoping to get a shot to cover one. This course will provide you with one week of preparatory work gathering delegate information and conducting other pre-convention reporting for one of the two major parties and turning it into prose, graphics, video, social media, etc., then almost a week of on-the-ground reporting at one of the two conventions.

	I601	James Carroll, Joshua Davidsburg	Seats (Total: 4)
		Meets August 12, 2024 - August 23, 2024	
		Class time/details on ELMs Contact instructor or department for details.	ONLINE
		The dates cover the preparation and attendance at the Democratic National Convention in Chicago. Housing in the convention cities, as well as transportation to and from the convention cities, will be provided.	

JOUR698 **Special Problems in Communication**

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR779A **Seminar in Research Problems; Sport Globalization: NBA Africa**

Methods of research design and analysis in specialized areas of journalism and public communication research.

Cross-listed with JOUR459A. Credit only granted for JOUR459A or JOUR779A.

Contact department for information to register for this course.

JOUR798 **Master's Professional Fieldwork**

Research for and preparation of news articles or programs for use in the media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**
Contact department for information to register for this course.

JOUR888 **Doctoral Professional Field Work**

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**
Contact department for information to register for this course.

KNES120A **Fitness Walking**

Credit only granted for: KNES120 or KNES120A. Formerly: KNES120A.

This is a co-ed physical activity course for beginning fitness walking.

Students must pay a $40 instructional materials fee.

WB21	Tavon Mitchell	Seats (Total: 75)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

KNES131N **Physical Education Activities: Coed; Jogging (Beginning)**

Students must pay a $40 instructional materials fee.

WB11	Gabriella Wooden	Seats (Total: 75)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Attendance is required beginning the first day of class. Students must pay a $40 instructional materials fee.

0401	Jeff Maynor	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	MTuWThF 9:00am - 11:00am	GLF 1102	Lab

KNES144T **Physical Education Activities: Coed; Self-Defense**

Students must pay a $40 instructional materials fee.

WB11	Kenneth Klotz	Seats (Total: 30)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

KNES161N **Physical Education Activities: Coed; Conditioning (beginning)**

Attendance (via ELMS response) is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee. Students will be expected to complete 3-4 exercise sessions and post workout results on ELMS each week.

WB21	Zoey Kearns	Seats (Total: 50)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

KNES161T **Physical Education Activities: Coed; Yoga (Beginning)**

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee.

WB11	Kate Shin	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	Lab

KNES226 **The Cybernetic Human**

Credit only granted for: KNES289W OR KNES226. Formerly: KNES289W.

Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power, engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.

WB21	Tim Kiemel	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

KNES243 **Sports Finance & Business Intelligence**

As society has evolved with advances in technology, so have the financial and analytical fundamentals of spectator sports leagues. In this course, students will examine modern business principles in for-profit sports leagues, understand current practices for successful operation and revenue generation, and explore how analytics and emerging categories play a crucial role in an organization's growth and competitiveness in their respective markets.

WB41	Thomas Nagle	Seats (Total: 30)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

KNES287 **Sport and American Society**

Recommended: Minimum grade of C- in KNES285.

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

WB31	Ronald Mower	Seats (Total: 50)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	

KNES289 **Topical Investigations**

(Perm req)

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES289F **Topical Investigations; Foundations of Food, Physical Activity, & Health**

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Explore the basics of nutrition, activity & exercise, and human health. What is a calorie? What is metabolic rate? How do our daily activities alter our metabolism? What are the short- and long-term benefits of exercise? How do equity and access to food and physical activity affect health? Is sedentary behavior a greater health risk than being overweight?

040Y	Sarah Glancy **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:30am - 12:30pm	Seats (Total: 5) KNI 1105
YS41	Sarah Glancy **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:30am - 12:30pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 22) KNI 1105

KNES293 **History of Sport in America**

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Contact department for information to register for this course.

KNES300 **Biomechanics of Human Motion**

Prerequisite: Minimum grade of C- in BSCI201; and minimum grade of C- in MATH113 or higher. Recommended: KNES265 or PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

Students must pay a $75 laboratory fee.

0201	Chinechebem Amechi **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs TuTh 11:00am - 12:50pm	Seats (Total: 12) ONLINE SPH 0223	 Lab
0202	Chinechebem Amechi **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs TuTh 1:00pm - 2:50pm	Seats (Total: 12) ONLINE SPH 0223	 Lab

KNES320 **Physiological Basis of Physical Activity and Human Health**

Prerequisite: Minimum grade of C- in BSCI201 and BSCI202. Restriction: Must be in Public Health Science program. Credit only granted for: KNES360 or KNES320.

A study of the responses and chronic adaptations to physical activity and exercise, with particular emphasis on the interaction between human health and physical activity. The laboratory component of course will focus on the assessment of physical activity and measurement of physiological adaptations to exercise. Students are expected to gain an understanding and appreciation for the benefits of physical activity and exercise in the context of public health.

Students must pay a $75 lab fee. The laboratory component of KNES320 will be fully in-person at the times shown for each section. The lecture component of KNES320 will be fully online and asynchronous (meaning you will not have a set time to meet for class). There will be specific dates and time windows for lecture quizzes and exams (9am - 6pm EDT, without exception).

0101	Steven Prior **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs TuTh 8:00am - 9:50am	Seats (Total: 16) ONLINE SPH 0125	 Lab
0102	Steven Prior **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs TuTh 10:00am - 11:50am	Seats (Total: 16) ONLINE SPH 0125	 Lab

KNES334 **Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle**

Prerequisite: KNES370; or students not in the Kinesiology major may contact the instructor for permission. Restriction: Must have earned a minimum of 105 credits.

Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs. Students will explore their own perceptions towards disability and how people with disabilities are portrayed in our society. They will study the etiology of disabling conditions and the implications for participating in physical activity.

For the Summer Session, major restrictions do not apply. Students who have completed a minimum of 75 credits may register.

WB51	Ana Palla	Seats (Total: 30)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

KNES342 **Sport, Commerce, and Culture in the Global Marketplace**

Recommended: KNES287. Credit only granted for: KNES389A or KNES342. Formerly: KNES389A.

The Sport, Commerce, and Culture in the Global Marketplace study abroad program is designed for students who are interested in the relationship between sport, culture, and the contemporary global economy.

Contact department for information to register for this course.

KNES346 **Sport for Development**

Prerequisite: Must have earned a minimum grade of C- in KNES287. Recommended: KNES485. Restriction: Must be a major within the SPHL-Kinesiology department and must have earned a minimum of 75 credits. Credit only granted for: KNES389D or KNES346. Formerly: KNES389D.

Examines how sport-based programs and organizations are used by governments, multinational corporations, and non-government organizations (NGO's) to reach personal, community, national and international development objectives; focuses on theorizing the histories of international development and contemporary global issues; contextualizes the interrelationship of theory, institutions, and practices of domestic and international sport for development and peace programing.

For the Summer Session, major restrictions do not apply.

WB21	Ronald Mower	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

KNES350 **The Psychology of Sports & Exercise**

Restriction: Must have earned a minimum of 45 credits.

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

WB21	J Carson Smith	Seats (Total: 50)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

KNES355 **Sport Management**

Prerequisite: Minimum grade of C- in KNES287. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

Prerequisite: KNES287 with a C- or better. For the Summer Session, major restrictions do not apply.

WB11	Stephen McDaniel	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

KNES360 **Physiology of Exercise**

Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $75 laboratory fee. The laboratory component of KNES360 will be fully in-person. Lecture quizzes and exams will be open only from (9am - 9pm EDT, without exception) on the days listed in the syllabus. For the Summer Session, major restrictions do not apply.

0101	Sushant Ranadive	Seats (Total: 16)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	TuTh 12:00pm - 1:50pm	SPH 0125	Lab
0102	Sushant Ranadive	Seats (Total: 16)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	TuTh 2:00pm - 3:50pm	SPH 0125	Lab

KNES385 **Motor Control and Learning**

Prerequisite: Minimum grade of C- in BSCI201, and a minimum grade of C- in MATH113 or higher. Recommended: KNES265 or PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context.

This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context. Students must pay a 75$ lab fee

0201	Rodolphe Gentili **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs MW 9:00am - 10:50am	Seats (Total: 12) ONLINE SPH 0223	 Lab
0202	Rodolphe Gentili **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs MW 11:00am - 12:50pm	Seats (Total: 12) ONLINE SPH 0223	 Lab

KNES386 **Experiential Learning**

(Perm req)

Prerequisite: Must have completed three KNES core classes. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.

0101	Jay Goldstein **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:00am - 11:00am Class time/details on ELMs	Seats (Total: 20) SPH 0302 ONLINE	

KNES389 **Topical Investigations**

(Perm req)

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES389K **Topical Investigations; Kinesiological Sciences Internship**

(Perm req)

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: KNES major and relevant KNES major classes.

Contact department for information to register for this course.

KNES389Y **Topical Investigations; Applications of Community Sports-based Youth Development**

(Perm req)

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

In this hands-on team-based course, students will volunteer with a local community partner that promotes sports-based positive youth development (SBPYD). These community partners support populations that are traditionally underserved or marginalized and integrate strategies into the sport context to promote positive social outcomes. This course may have non standard meeting times and could require traveling off campus. For additional information and permission to enroll, please contact the Kinesiology department.

0501	Jay Goldstein	Seats (Total: 20)
	Meets June 17, 2024 - July 12, 2024	
	MTuWThF 9:00am - 11:00am	ARM 0135

KNES402 **Biomechanics of Sport**

Prerequisite: Minimum grade of C- in KNES300. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

WB21	Ross Miller	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

KNES451 **Children and Sport: A Psychosocial Perspective**

Prerequisite: Minimum grade of C- in KNES350. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 105 credits.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

For the Summer Session, major restrictions do not apply. Students who have completed a minimum of 75 credits may register.

WB11	Elizabeth Brown	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

KNES462 **Neural Basis of Human Movement**

Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES385; or permission of SPHL-Kinesiology department. Restriction: Must have earned a minimum of 75 credits.

An introduction to the neural substrates which underlie postural and volitional movement. Neuroanatomical and neurophysiological basis of motor functioning; past and present conceptualizations of motor control and coordination; movement disorders; and maturation of the neuromuscular system.

WB11	Rodolphe Gentili	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

KNES498 **Special Topics in Kinesiology; Special Topics in Kinesiology**

(Perm req)

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES600 **Kinesiology in Public Health**

A broad introduction to public health within the context of the discipline of kinesiology, focusing on furthering the understanding of the ways kinesiology contributes toward achieving the goals of public health.

PLK1	Valerie Cholet	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

KNES601 **Epidemiology of Physical Activity**

Prerequisite: KNES600; and must have completed an undergraduate statistics course (e.g., STAT100 or equivalent).

An exploration of basic epidemiological study design, methods, and health outcomes in the field of physical activity.

PLK1	Michael Briggs	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

KNES603 **Research Methods in Kinesiology & Public Health**

Prerequisite: KNES600, KNES601, and KNES602.

The purpose of this course is to expose students: (1) to some of the key issues involved in physical activity and public health related research, and (2) the process of conducting and communicating research. In addition to learning the central aspects of a range of quantitative and qualitative research methods, students will gain practice evaluating and synthesizing existing research, as well as writing a research proposal specific to a topic of their choice.

PLK1	Tim Werner	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

KNES621 **Teaching Elementary Physical Education**

Restriction: Must be enrolled in Pre-K to 12 Physical Education Master of Education program. Credit only granted for: KNES689V or KNES621. Formerly: KNES689V.

Students will learn aspects of teaching elementary physical education including: characteristics of elementary school students, testing, grading, teaching lifetime skills, and effective teaching techniques using SHAPE America Standards.

IH60	Jason Semanoff	Seats (Total: 15)
	Meets July 8, 2024 - August 2, 2024	
	Th 4:30pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE

KNES689 **Special Problems in Kinesiology**

(Perm req)

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES778 **Practical Experience in Physical Activity and Public Health**

The practical experience is a time-limited, supervised period of public/community health activities carried out in a health or allied health organization involved with physical activity. Students gain practical experience in areas such as program planning and implementation, program evaluation, public policy analysis, research, and management.

PLK1	Valerie Cholet	Seats (Total: 5)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

KNES789 **Advanced Projects in Kinesiology**

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES798 **Internship in Physical Education/Sports Management**

Practical application of previously acquired skills and knowledge in a sport and/or physical education setting. Emphasis on selected experiences to enhance the total academic program of the student. The internship site assignment will depend upon student's background and career goals.

Restriction: Must be enrolled in PreK-12 Physical Education Master of Education program.

IH61	Cara Grant	Seats (Total: 15)
	Meets May 16, 2024 - June 23, 2024	
	Contact instructor or department for details.	

KNES799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

0101	Shannon Jette	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0201	Shannon Jette	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

KNES899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

KORA Korean Summer 2024

KORA103 **Intensive Elementary Korean I**

(Perm req)

Prerequisite: Must have appropriate Foreign Language Placement Assessment (FLPA) score, and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a non-Heritage student with no background in Korean. Registration limited to students accepted into the Summer Language Institute. Credit only granted for: KORA101 or KORA103.

Intensive introduction to the Korean language at the elementary level through a highly interactive approach, including oral/aural, reading, and writing skills (Hangul alphabet). Substantial cultural component familiarizes students with various aspects of Korean culture. Designed for students with no formal education in the Korean language. Taught in Korean.

XL11	Seong Minne Koh **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

KORA104 **Intensive Elementary Korean II**

(Perm req)

Prerequisite: KORA101, KORA103 or equivalent, as determined by the Foreign Language Placement Assessment (FLPA), and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Registration limited to students accepted into the Summer Language Institute. Credit only granted for: KORA 102 or KORA 104.

Intensive training at the elementary level in spoken Korean including the use of various speech styles, through a highly interactive approach. Continues to build and enhance accuracy in basic literacy skills, vocabulary, and grammar, as well as situational appropriateness. Substantial cultural component familiarizes students with various aspects of Korean culture. Taught in Korean.

XL21	Seong Minne Koh **Meets July 8, 2024 - August 2, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

LARC Landscape Architecture Summer 2024

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

WB31	Sherry Russell **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB41	Sherry Russell **Meets July 8, 2024 - July 26, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

LARC152 **Greening Cities: Who Wins, Who Loses, and Who Cares?**

Credit only granted for: LARC152 or PLSC289I. Formerly: PLSC289I.

"Greening Cities" can have many interpretations: improving or adding urban economic activity, realizing energy efficiency, greening urban transport systems, etc. An important component of livable and sustainable cities and metropolitan ecosystems are the plants and landscapes that are inhabited by plants. With the majority of humans now living in cities, a survey of urban ecosystem principles and an examination of design and planning strategies for plant and landscape resources in urban and metropolitan regions is critical.

WB31	David Myers	Seats (Total: 20)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

LARC160 **Introduction to Landscape Architecture and Environmental Design**

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences. Topics include urban, ecological, community and creative design.

WB31	Colleen Vacelet	Seats (Total: 20)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE
WB41	Colleen Vacelet	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

LARC162 **Environmental Justice: Same World, Different Built Environment**

Environmental Justice will be explored in the context of the built environment. What unequal public built environmental threats exist? How can these threats be prevented or eliminated? Public schools, public parks, access to clean water, air pollution, tree coverage are among the built environments examined in the course.

WB41	Dora Cortez, Byoung-Suk Kweon	Seats (Total: 20)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

LARC451 **Sustainable Communities**

Explores concepts, strategies and examples of community design which address the needs of a growing population while preserving the environment and its resources.

Contact department for information to register for this course.

LARC489K **Special Topics in Landscape Architecture; Design Discovery UK: London and North Yorkshire**

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489O **Special Topics in Landscape Architecture; Computer-Aided Design and Drafting (CADD): Urban Construction**

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

WB41	Boyoung Park	Seats (Total: 25)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Independent studies in landscape architecture including field, studio or library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC699 **Independent Studies in Landscape and Architecture**

(Perm req)

Individual Instruction course.

Contact department for information to register for this course.

LARC799 **Master's Thesis Research**

(Perm req)

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LBSC Library Science Summer 2024

LBSC602 **Serving Information Needs**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

WB11	Ursula Gorham-Oscilowski	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

LBSC631 **Achieving Organizational Excellence**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

WB11	Ryan O'Grady	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

LBSC644 **Collection Development**

Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC 644 or LBSC 708G. Formerly: LBSC 708G.

Activities through which library collections are systematically developed and managed are explored, especially the formulation and implementation of written collection development policies. Other specific topics include identification of user needs; collection evaluation; fund allocation among competing departments, subjects, and/or media; selection methods; intellectual freedom; storage alternatives; and cooperative collection development.

WB11	Morgan Adle	Seats (Total: 30)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

LBSC646 **Literature and Materials for Young Adults**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC646 or LBSC746. Formerly: LBSC746.

Survey of literature and other materials for older children and adolescents. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

WB11	Jennifer Sturge	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

LBSC671 **The Lifecycle of Information**

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Introduction to methods used to create, acquire, organize, manage and preserve information. Information systems currently used to support digital and physical libraries, databases, and repositories will be explored.

WB21	Kevin Washburn	Seats (Total: 25)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

LBSC707 **Field Study in Information Service**

Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in a library, archive, museum, or other information organization.

WB11	Abbie Basile	Seats (Total: 30)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

LBSC708A **Special Topics in Library and Information Science; Planning Successful Events**

A special topics course with content determined by individual instructors. For questions about the content of the course contact the College of Information Studies.

WB11	Abbie Basile	Seats (Total: 25)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

LBSC708X **Special Topics in Library and Information Science; Roles and Responses during Crises**

A special topics course with content determined by individual instructors. For questions about the content of the course contact the College of Information Studies.

WB11	Mega Subramaniam	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

LBSC708Z **Special Topics in Library and Information Science; Using Technology for Interactive Instruction**

A special topics course with content determined by individual instructors. For questions about the content of the course contact the College of Information Studies.

WB11	Abbie Basile	Seats (Total: 25)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

LBSC709 **Independent Study**

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Contact department for information to register for this course.

LBSC799 **Master's Thesis Research**

(Perm req)

Intensive research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

LEAD Leadership Education and Development Summer 2024

LEAD217 **Introduction to Leadership**

(Perm req)

Restriction: Freshman standing; or sophomore standing. Credit only granted for: LEAD217 or HESI217. Formerly: HESI217.

Surveys the study and practice of leadership and provides students with a variety of experiences to wrestle with large leadership questions. What is leadership? Who can be a leader? How is leadership an important aspect of understanding self and others? Students will explore and respond to these questions through a variety of leadership theories and models, self-assessments, critical reflection, active-learning, group projects, and research. The course will introduce students to critical theory and critical perspectives of leadership to help students broaden their perspectives on leadership and develop more complex thought and practice of leadership.

0401	Anastasia Lavrenyuk	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	TuTh 10:00am - 12:00pm	AJC 2119

LGBT Lesbian Gay Bisexual Transgender Studies Summer 2024

LGBT327 **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Restriction: Junior standing or higher. Cross-listed with: ENGL359F. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Also offered as ENGL359F. Credit granted for LBGT327 or ENGL359F.

WB41	James Goodwin **Meets July 8, 2024 - July 26, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

LING Linguistics Summer 2024

LING499 **Directed Studies in Linguistics**

(Perm req)

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING689 **Independent Study**

Independent studies in grammatical theory.

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 2)
0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)

LING698 **Directed Study**

(Perm req)

Contact department for information to register for this course.

LING798 **Research Papers in Linguistics**

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

LING889 **Directed Research**

(Perm req)

Contact department for information to register for this course.

LING896 **Research Paper in Minor Area**

Prerequisite: LING888.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 1)
0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)

LING898 **Pre-Candidacy Research**
Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

MATH Mathematics Summer 2024

MATH107 **Introduction to Math Modeling and Probability**

Prerequisite: Must have math eligibility of MATH107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences; must not have completed STAT100, MATH113, MATH120, MATH135, MATH136 or MATH140 with a C- or better; must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH136, or MATH140. Formerly: MATH110 and MATH111.

A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.

WB12	Randy Martinez **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB22	Ergun Kacar **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

MATH113 **College Algebra and Trigonometry**

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH135, MATH136 or MATH140 with a grade of C- or higher; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, or MATH140. Credit only granted for: MATH113 or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

WB11	Karen McLaren **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 45) ONLINE
WB21	Jermain McDermott **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 42) ONLINE

MATH115 **Precalculus**

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140 with a grade of C- or better; and must not have completed any MATH or STAT course with a prerequisite of MATH140 or MATH141. Credit only granted for: MATH113 or MATH115.

Preparation for MATH120, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

CP01	Timothy Pilachowski **Meets June 26, 2024 - July 26, 2024** MTuWThF 9:00am - 11:00am *This secion is for Bridge Program students. Restricted to students in the Summer Bridge Program.*	Seats (Total: 20) MTH 0411
WB11	Timothy Pilachowski **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE
WB21	Shuo Liu **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

MATH120 **Elementary Calculus I**

Prerequisite: 1 course with a minimum grade of C- from (MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences; Must not have completed MATH130, MATH136 or MATH140 with a grade of C- or higher. Formerly: MATH220.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

WB11	Seyed Banihashemi **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 46) ONLINE
WB12	Muhammad Aftab **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB21	Sean Gruber **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 42) ONLINE
WB22	Dohoon Kim **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

MATH140 **Calculus I**

Prerequisite: Minimum grade of C- in MATH115.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

WB11	Shin Song **Meets May 28, 2024 - July 19, 2024** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE
WB13	Jesus Dominguez Russell **Meets May 28, 2024 - July 19, 2024** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE
WB14	Anna Szczekutowicz **Meets May 28, 2024 - July 19, 2024** MTuWThF 11:00am - 12:22pm	Seats (Total: 30) ONLINE

MATH141 **Calculus II**

Prerequisite: Minimum grade of C- in MATH140.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

WB11	Pablo Cedillos **Meets May 28, 2024 - July 19, 2024** MTuWThF 8:00am - 9:22am	Seats (Total: 40) ONLINE
WB12	Anna Szczekutowicz **Meets May 28, 2024 - July 19, 2024** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE
WB13	James Conway **Meets May 28, 2024 - July 19, 2024** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

MATH206 **Introduction to Matlab**

Prerequisite: 1 course with a minimum grade of C- from (MATH136, MATH140).

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

WB11	Terence Long **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

MATH240 **Introduction to Linear Algebra**

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

All sections will use MATLAB.

WB11	Haoran Li **Meets May 28, 2024 - July 19, 2024** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

WB12	Yong Cui **Meets May 28, 2024 - July 19, 2024** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

MATH241 **Calculus III**

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

WB11	Terence Long **Meets May 28, 2024 - July 19, 2024** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE
WB12	Sepehr Mohammadkhani **Meets May 28, 2024 - July 19, 2024** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE

MATH246 **Differential Equations for Scientists and Engineers**

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

WB11	Weimin Jiang **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB12	Revati Jadhav **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE
WB21	Kendall Williams **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE

WB22	Ishfaaq Mohammed Imtiyas **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE

MATH310 **Introduction to Mathematical Proof**

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department; or permission of the CMNS-Mathematics department. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

WB11	James Conway **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB21	Sean Gruber **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

MATH401 **Applications of Linear Algebra**

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

WB11	Allan Yashinski **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

MATH406 **Introduction to Number Theory**

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

WB11	Niranjan Ramachandran **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

MATH410 **Advanced Calculus I**

(Perm req)

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310.

Subjects covered: sequences and series of numbers, continuity and differentiability of real-valued functions of one variable, the Riemann integral, sequences of functions and power series.

WB11	Roohollah Ebrahimian **Meets May 28, 2024 - July 19, 2024** MTuThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

MATH461 **Linear Algebra for Scientists and Engineers**

Prerequisite: Minimum grade of C- in MATH141; and must have completed a MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

All sections will use MATLAB.

WB11	Steven Chadwick **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE
WB21	Kendall Williams **Meets July 8, 2024 - August 16, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

MATH462 **Partial Differential Equations**

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

WB21	Amin Gholampour	Seats (Total: 40)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 11:00am - 12:20pm	ONLINE

MATH463 **Complex Variables**

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

WB11	Allan Yashinski	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:50am	ONLINE

MATH475 **Combinatorics and Graph Theory**

(Perm req)

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and permission of CMNS-Mathematics department. Cross-listed with CMSC475. Credit only granted for: MATH475 or CMSC475.

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

WB21	Todd Rowland	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 11:00am - 12:20pm	ONLINE

MATH689 **Research Interactions in Mathematics**

(Perm req)

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

MATH898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health Summer 2024

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits; and must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

WB11	Meleah Boyle	Seats (Total: 70)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

MIEH309 **Environmental Health Research**

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

Contact department for information to register for this course.

MIEH407 **One Health: Food Safety and Security**

Restriction: Must have earned at least 75 credits . Jointly offered with: MIEH607. Credit only granted for: MIEH607 or MIEH407.

This is a collaborative course with the University of Maryland and Cairo University, Cairo, Egypt to explore the One Health Foundation and its application to improving international food safety and security. The purpose of this global undergraduate class is to disseminate knowledge on One Health and its application to improving global food safety and security. Students will apply principles of One Health to ensure food safety and food security in Egypt.

GC01	Muhiuddin Haider, Abdel-Razak Kadry	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	MW 10:00am - 12:00pm	ONLINE

The magnitude and complexity of food safety and security challenges necessitate that scientists, researchers, and others look beyond their own disciplines, professions, and mindsets to investigate new organizational modes of team science, and the One Health concept embodies this declaration. One Health is a multidisciplinary effort that works locally, nationally, and globally to achieve optimal health for people, animals, and the environment. This is a collaborative course offered by the University of Maryland and Cairo University in Cairo, Egypt, to investigate One Health and its application to improving international food safety and security. Participants in this global (undergraduate and graduate) class will learn about One Health and how its application can improve global food safety and security. Students will use One Health principles to ensure food safety and security through a global lens. This project-based class provides excellent opportunities for UMD students to interact and collaborate with students from Cairo University and other Egyptian universities using modern methods of international collaboration tools such as zoom technology and others. Synchronous meeting time: Mondays, 10am-12pm EST or 4pm-6pm Egyptian Time; Wednesdays 10am-12pm EST or 4pm-6pm Egyptian Time.

MIEH607 **One Health: Food Safety and Security**

Jointly offered with: MIEH407. Credit only granted for: MIEH407 or MIEH607.

This is a collaborative course among the University of Maryland and Cairo University, Cairo, Egypt to explore the One Health Foundation and its application to improving international food safety and security. The purpose of this global class is to disseminate knowledge on One Health and its application to improving global food safety and security. Students will have the opportunity to collaborate with Cairo University and the Agriculture Research Center in Egypt to explore the current status and challenges of global food safety and security.

GC01	Muhiuddin Haider, Abdel-Razak Kadry	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	MW 10:00am - 12:00pm	ONLINE
	The magnitude and complexity of food safety and security challenges necessitate that scientists, researchers, and others look beyond their own disciplines, professions, and mindsets to investigate new organizational modes of team science, and the One Health concept embodies this declaration. One Health is a multidisciplinary effort that works locally, nationally, and globally to achieve optimal health for people, animals, and the environment. This is a collaborative course offered by the University of Maryland and Cairo University in Cairo, Egypt, to investigate One Health and its application to improving international food safety and security. Participants in this global (undergraduate and graduate) class will learn about One Health and how its application can improve global food safety and security. Students will use One Health principles to ensure food safety and security through a global lens. This project-based class provides excellent opportunities for UMD students to interact and collaborate with students from Cairo University and other Egyptian universities using modern methods of international collaboration tools such as zoom technology and others. Synchronous meeting time: Mondays, 10am-12pm EST or 4pm-6pm Egyptian Time; Wednesdays 10am-12pm EST or 4pm-6pm Egyptian Time.	

MIEH609 **Methods in Environmental Health**

This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0101	Paul Turner	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0102	Amir Sapkota	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0103	Amy Sapkota	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

0104	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0109	Marccus Hendricks **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0110	Sheldon Tai **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0204	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0209	Marccus Hendricks **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MIEH698A **Special Topics in Environmental Health; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Special topics in environmental health.

Also offered as EPIB489A and EPIB689A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

MIEH698B **Special Topics in Environmental Health; Law, Public Health, and the Cuban Family**

Special topics in environmental health.

Contact department for information to register for this course.

MIEH778 **Practical Experience in Public Health**

(Perm req)

Practice experience and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practice experience will depend upon the student's background and career goals.

I101	Rianna Murray **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MIEH786 **Capstone Project in Public Health**

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0101	Paul Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0107	Rachel Goldstein **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0209	Abdel-Razak Kadry **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

(Perm req)

In-depth examination and critical discussion of the current literature relevant to environmental health.

0101	Paul Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0201	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MIEH789 **Independent Study**

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

0101	Paul Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0102	Amir Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0109	Kristen Coleman **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0203	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0209	Kristen Coleman **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MIEH899 **Doctoral Dissertation Research**

0101	Paul Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

0104	Donald Milton **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0206	Sacoby Wilson **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

MLAW MPower Undergraduate Law Programs Summer 2024

MLAW358A **Selected Topics in Law and Society; Human Trafficking in Context: A Comparative Analysis**

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Although human trafficking occurs all over the world, the exacerbating factors vary by region and country. This course will offer students an opportunity to idenify and compare the causes of human trafficking in the United States and another country. Students will work with students from a partner university in an international location to better understand human trafficking in that location and how solutions to this global challenge will vary based on location. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

MLAW358I **Selected Topics in Law and Society; Human Trafficking in Context: Corruption in Social Justice**

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Cross-listed with CCJS458F. Credit only granted for CCJS458F or MLAW358I.

Contact department for information to register for this course.

MLAW388 **Law and Society Internship**

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

Restricted to students in the Law and Society minor.

WB11	Brandee Pettus **Meets May 28, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 35) ONLINE

MLSC MD Language Science Ctr Summer 2024

MLSC420 **Language at the Museum: Engaging the Public in Language Science**

(Perm req)

Recommended: Background in language science or related fields. Restriction: Permission of instructor. Jointly offered with: MLSC620. Additional information: Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum.

Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class engaging in hands-on research and interaction with visitors at a museum about language in Washington DC.

Recommended: Background in language science or related fields. Restriction: Permission of instructor. Jointly offered with: MLSC620. Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum. Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class (~6 hours) engaging in hands-on interaction with visitors at a museum about language in Washington DC. By permission of the instructor only. Class meets on Tuesdays (Zoom) from 3-6:30 PM and Thursdays (in-person) from 3-6:30 PM. Thursday in-person class and additional experiential learning hours to be held off-campus at the Planet Word museum in DC (925 13th St NW, Washington, DC 20005).

Before contacting the instructor, please see this link to learn more information about the course, and to answer a few questions about your background and interest.

0101	Charlotte Vaughn	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Tu 3:00pm - 6:30pm	ONLINE
	Th 3:00pm - 6:30pm	Location: TBA

MLSC620 **Language at the Museum: Engaging the Public in Language Science**

Recommended: Background in language science or related fields. Restriction: Permission of instructor. Jointly offered with: MLSC420. Additional information: Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum.

Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class engaging in hands-on research and interaction with visitors at a museum about language in Washington DC.

Recommended: Background in language science or related fields. Restriction: Permission of instructor. Jointly offered with: MLSC620. Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum. Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class (~6 hours) engaging in hands-on interaction with visitors at a museum about language in Washington DC. By permission of the instructor only. Class meets on Tuesdays (Zoom) from 3-6:30 PM and Thursdays (in-person) from 3-6:30 PM. Thursday in-person class and additional experiential learning hours to be held off-campus at the Planet Word museum in DC (925 13th St NW, Washington, DC 20005).

Before contacting the instructor, please see this link to learn more information about the course, and to answer a few questions about your background and interest.

0101	Charlotte Vaughn	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Tu 3:00pm - 6:30pm	ONLINE
	Th 3:00pm - 6:30pm	Location: TBA

MSML Machine Learning Summer 2024

MSML606 **Algorithms and Data Structures for Machine Learning**

Provides both a broad coverage of basic algorithms and data structures. Topics include sorting, searching, graph and string algorithms; greedy algorithm, branch-and-bound, dynamic programming and job scheduling; Arrays, linked lists, queues, stacks, and hash tables; Algorithm complexity, best/average/worst case analysis. Applications selected from machine learning problems.

PWS1	Manoj Franklin	Seats (Total: 50)
	Meets May 28, 2024 - August 16, 2024	
	Th 6:00pm - 9:30pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Machine Learning. Golden ID students are not eligible for this section.	

MSML612 **Deep Learning**

Prerequisite: DATA603 or MSML603. Cross-listed with: DATA612. Credit only granted for: DATA612 or MSML612.

Provides an introduction to the construction and use of deep neural networks: models that are composed of several layers of nonlinear processing. The class will focus on the main features in deep neural nets structures. Specific topics include backpropagation and its importance to reduce the computational cost of the training of the neural nets, various coding tools available and how they use parallelization, and convolutional neural networks. Additional topics may include autoencoders, variational autoencoders, convolutional neural networks, recurrent and recursive neural networks, generative adversarial networks, and attention-based models. The concepts introduced will be illustrated by examples of applications chosen among various classification/clustering questions, computer vision, natural language processing.

PWS1	Yuntao Liu	Seats (Total: 50)
	Meets May 30, 2024 - August 18, 2024	
	Tu 6:00pm - 9:30pm	ONLINE
	Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.	

MUED Music Education Summer 2024

MUED690 **Research Methods in Music and Music Education**

(Perm req)

The application of methods of research to problems in the fields of music and music education. The preparation of bibliographies and the written exposition of research projects in the area of the student's major interest.

WB21	Kenneth Elpus	Seats (Total: 10)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

MUED698M **Current Trends in Music Education; Comprehensive Musicianship through Performance in Ensembles**

A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.

WB41	Stephanie Prichard	Seats (Total: 15)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

MUED698T **Current Trends in Music Education; Teaching Music with Technology**

(Perm req)

A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.

WB21	Robin Giebelhausen	Seats (Total: 6)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

MUSC School of Music Summer 2024

MUSC102B **Class Piano**

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

0602	Michael Blum	Seats (Total: 14)
	Meets July 29, 2024 - August 16, 2024	
	MTuWThF 1:00pm - 2:50pm	PAC 1123

MUSC140 **Music Fundamentals I**

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

WB31	Richard Drehoff	Seats (Total: 20)
	Meets May 28, 2024 - June 14, 2024	
	TuWThF 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

MUSC204 **Popular Music in Black America**

Traces black popular music in the U.S. with a special focus on spirituals, ragtime, the blues, early jazz, R&B, Motown, funk, soul, and rap. Examines how these styles have been borrowed by the American music industry.

WB41	Nicole Steinberg	Seats (Total: 50)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

MUSC205 **History of Popular Music, 1950-Present**

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

WB31	Nathaniel Harrell	Seats (Total: 50)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

MUSC269A **Special Topics in Study Abroad II; Enhancing Spanish Language and Cultural Knowledge Through Music**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

MUSC269I **Special Topics in Study Abroad II; History of Italian Music**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Pre-professional field work in music.

Contact department for information to register for this course.

MUSC389 **Music Internship Analysis; Music Internship Analysis**

(Perm req)

Documentation and evaluation of field work experience.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Contact department for information to register for this course.

MUSC499 **Independent Studies**

(Perm req)

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC699 **Selected Topics in Music**
Contact department for information to register for this course.

MUSC699U **Selected Topics in Music; Music Theory Pedagogy in the 21st Century**

Prerequisites: MUSC 150, 151, 250, 251, 450; a completed undergraduate degree in music; OR permission from instructor. Course will be taught online for the majority of duration, with one or two in-person meetings at the end of the term.

WB41	Anna Nelson	Seats (Total: 15)	
	Meets July 8, 2024 - July 26, 2024		
	Tu 11:00am - 12:30pm	ONLINE	
	F 12:30pm - 4:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

MUSC799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

MUSC898 **Pre-Candidacy Research**

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req)

Contact department for information to register for this course.

NACS Neuroscience & Cognitive Science Summer 2024

NACS899 **Doctoral Dissertation Research**

Indivdual instruction course: contact department or instructor to obtain section number

0210	Elizabeth Redcay **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
0214	Catherine Carr **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 2)
0219	Jens Herberholz **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
0220	Jae Kun Shim **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)
0221	Edward Bernat **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 1)

NEUR Neuroscience Summer 2024

NEUR200 **Introduction to Neuroscience**

Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: PSYC202. Credit only granted for: PSYC309U, NEUR200, PSYC202 or PSYC301. Formerly: PSYC309U.

In an evolutionary sense, the job of the nervous system is to produce, control, and coordinate behaviors that help an animal survive and reproduce. Neuroscience is the study of how the nervous system does that. Provides a broad introduction to neuroscience, always keeping the behavioral consequences in view.

Credit only granted for PSYC 309U, NEUR 200, or PSYC 301

WB21	Jeremy Purcell	Seats (Total: 35)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

NEUR306 **Cellular and Molecular Neuroscience**

Prerequisite: Earning C- or higher in NEUR200 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Cross-listed with: BSCI353. Credit only granted for: NEUR306 or BSCI353.

Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.

WB11	Chan Lin	Seats (Total: 16)
	Meets May 28, 2024 - July 5, 2024	
	W 11:00am - 12:15pm	ONLINE
	Class time/details on ELMs	ONLINE

NEUR379 **Special Topics: Research in Neuroscience**

(Perm req)

Research and/or integrated reading in a topic related to neuroscience, under the direction and close supervision of a member of the University of Maryland faculty.

0101	Chan Lin	Seats (Total: 1)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	
0201	Chan Lin	Seats (Total: 1)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

NFSC Nutrition and Food Science Summer 2024

NFSC100 **Elements of Nutrition**

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

WB11	Margaret Udahogora	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:50am	ONLINE

NFSC103 **Nutrition and Sports Performance**

Nutrition and Sports Performance would give students a brief overview of positive health-related outcomes of a physically active lifestyle. Students would design a fitness regimen and be able to describe when and how glycogen, blood glucose, fat, and protein are used to meet energy needs during different types of physical activity. They would be able to differentiate between anaerobic and aerobic use of glucose, and identify advantages and disadvantages of each. This course would outline how to estimate and athlete's calorie need and discuss the general principles for meeting overall nutrient requirements in the training diet. The problems associated with rapid weight loss by dehydration and the importance of water and/or sports drinks during exercise would be examined. An understanding of the importance of staying well-nourished with carbohydrate, protein, and various vitamins and minerals before, during, and after training would be discussed.

WB21	Melissa Rittenhouse	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

NFSC490 **Special Problems in Nutrition**

(Perm req)

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498G **Selected Topics; Ghana: A Feed the Future Classroom**

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498M **Selected Topics; Health Implications of the Mediterranean Diet and Culture**

Selected current aspects of food.

Contact department for information to register for this course.

NFSC678A **Selected Topics in Nutrition**

Individual or group study in an area of nutrition.

0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0226	Seong-Ho Lee **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC799 **Master's Thesis Research**

(Perm req)

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

0101	Instructor: TBA **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0103	Qin Wang **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0115	Liangli Yu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)
0116	Robert Buchanan **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 10)

0121	Rohan Tikekar **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0133	Shaik Rahaman **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0203	Qin Wang **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0215	Liangli Yu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0216	Robert Buchanan **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)

NFSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

PERS Persian Summer 2024

PERS105 **Intensive Elementary Persian I**

(Perm req)

Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Open to beginning learners of Persian only.

Intensive training in spoken and written Persian at elementary level. Basic literacy skills, vocabulary, pronunciation and grammar developed through a highly interactive approach. Substantial cultural component familiarizing students with cultural themes related to Iran and the Persian speaking world. Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Bahareh Jalehmahmoudi **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

PERS106 **Intensive Elementary Persian II**

(Perm req)

Prerequisite: Pre-requisite: PERS105, or equivalent, as determined by the WLPT (World Language Placement Test).

Intensive training in spoken and written Persian at elementary level (ACTFL Novice High to Intermediate Low). Continues building basic literacy skills, vocabulary, and grammar through highly a interactive approach. Substantial cultural component familiarizing students with cultural themes related to Iran and the Persian speaking world. Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Bahareh Jalehmahmoudi **Meets July 8, 2024 - August 2, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

PERS205 **Intensive Intermediate Persian I**

(Perm req)

Prerequisite: PERS106; or equivalent as determined by World Language Placement Test (WLPT).

Development of Persian language proficiency and cultural knowledge at the intermediate level (Intermediate-Mid on ACTFL scale). Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Manizhe Galledari **Meets June 3, 2024 - July 3, 2024** MTuWThF 9:00am - 5:00pm	Seats (Total: 15) Location: TBA

PERS206 **Intensive Intermediate Persian II**

(Perm req)

Prerequisite: PERS205; or equivalent, as determined by the WLPT (World Language Placement Test).

Designed to further develop Persian language proficiency and cultural knowledge at an intermediate level (Intermediate High on ACTFL scale). Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Manizhe Galledari	Seats (Total: 15)
	Meets July 8, 2024 - August 2, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

PERS305 **Intensive Advanced Persian I**

(Perm req)

Prerequisite: Must have completed PERS206; or equivalent as determined by World Language Placement Test (WLPT).

Development of Persian language proficiency and cultural competence at an advanced level (Advanced Low on ACTFL scale). Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Instructor: TBA	Seats (Total: 15)
	Meets June 3, 2024 - July 3, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

PERS306 **Intensive Advanced Persian II**

(Perm req)

Prerequisite: PERS305; or equivalent as determined by WLPT (World Language Placement Test).

Continued development of Persian language proficiency at an Advanced Mid level on ACTFL scale through a whole language approach integrating listening, speaking, reading and writing. Taught in Persian.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Instructor: TBA	Seats (Total: 15)
	Meets July 8, 2024 - August 2, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

PERS405 **Media and the Current Issues in Iranian Society**

(Perm req)

Prerequisite: PERS306; or equivalent as determined by WLPT (World Language Placement Test).

Develops Persian language proficiency and domain-specific knowledge at advanced-mid to advanced-high level on ACTFL scale. Enhances linguistic and cultural competence. Provides a broad understanding of some of the current social, political and economic issues in modern Iran. Taught in Persian.

Registration is limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Mehdy Sedaghat Payam	Seats (Total: 15)
	Meets June 3, 2024 - July 3, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

PERS406 **Practicum in Persian Translation**

(Perm req)

Prerequisite: PERS306; or equivalent as determined by the WLPT (World Language Placement Test).

Provides opportunities for translation, interpretation, and analysis of various authentic oral and written texts (both English to Persian and Persian to English). Facilitates the development of Persian language proficiency at advanced level through a task-based approach that integrates all the language skills in pedagogical translation activities.

Registration is limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Mehdy Sedaghat Payam	Seats (Total: 15)
	Meets July 8, 2024 - August 2, 2024	
	MTuWThF 9:00am - 5:00pm	Location: TBA

PHIL Philosophy Summer 2024

Click here for detailed course descriptions.

PHIL100 **Introduction to Philosophy**

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

An introduction to philosophy that focuses on three central themes in Western philosophy: the nature of death and the possibility of an afterlife (e.g. would immortality in paradise be desirable?), the nature of minds and artificial intelligence (e.g. is the rise of artificial intelligence an existential threat to humankind?), and finally, the ethics of life and death (e.g. is it wrong to have children?)

WB31	Zhaoqi Hu **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB4Y	Michael McCourt **Meets July 8, 2024 - July 26, 2024** MTuWThF 11:00am - 12:00pm	Seats (Total: 5) ONLINE
YW41	Michael McCourt **Meets July 8, 2024 - July 26, 2024** MTuWThF 11:00am - 12:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 13) ONLINE

PHIL140 **Contemporary Moral Issues**

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

An introduction to the tools and concepts of ethics (and ethical argumentation) through a survey of three topics of current relevance: (i) our relation to the environment; (ii) communities and migration; (iii) technology and privacy.

WB61	Lia Curtis Fine **Meets July 29, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

PHIL203 **The Rights and Wrongs of Killing People**

Credit only granted for: PHIL209J or PHIL203. Formerly: PHIL209J.

Virtually everyone thinks it's permissible to kill people only in special circumstances. But why is killing usually wrong? Is it ever acceptable to kill an innocent human being intentionally? This course raises these and related questions and examines cases such as terrorism, suicide, abortion, euthanasia, the death penalty, war. Except for a brief discussion of animals, all the controversies considered deal with killing and causing death to human beings.

WB31	Shen Pan **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

PHIL204 **Happiness**

Credit only granted for: PHIL209E or PHIL204. Formerly: PHIL209E.

What does the discipline of philosophy teach us about happiness? This course explores how philosophers have addressed questions about the nature of happiness and its role in the good human life. Questions to be addressed include: what is it to be happy? What social, economic, and political institutions foster and support human happiness? Can an immoral person be happy? And is a happy life the same as a meaningful life?

WB41	Casey Enos	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

PHIL209T **It's About Time**

Do moments cease to exist when they recede into the past? Does time actually pass, or is it just a psychological illusion? Using time travelas our central example, we'll examine these questions through the lens of philosophy, science fiction, and physics

WB41	Shen Pan	Seats (Total: 30)
	Meets July 8, 2024 - July 26, 2024	
	Class time/details on ELMs	ONLINE

PHIL245 **Political and Social Philosophy I**

A critical examination of such classical political theories as those of Plato, Hobbes, Locke, Rousseau, Mill, Marx, and such contemporary theories as those of Hayek, Rawls, and recent Marxist thinkers.

WB61	Robert Ragsdale	Seats (Total: 30)
	Meets July 29, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

PHIL344 **Philosophy of Race**

Credit only granted for: PHIL344 or PHIL308Y. Formerly: PHIL308Y.

A survey of philosophical arguments involving race and racism. Guiding questions will include: How have philosophers and scientists conceived of the concept of race? Is race a coherent concept? Does it help us explain differences in performance and behavior? What makes racism, racial prejudice, and discrimination wrong? What is the point of equality? Do we owe reparations to victims of racism?

WB51	Joseph Gurrola	Seats (Total: 30)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

PHIL498 **Topical Investigations**

(Perm req)

Contact department for information to register for this course.

PHIL688 **Selected Problems in Philosophy**

(Perm req)

Contact department for information to register for this course.

PHIL788 **Research in Philosophy**

(Perm req)

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research**

Contact department to make arrangements.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research**

Contact department to make arrangements.

Contact department for information to register for this course.

PHSC Public Health Science Summer 2024

PHSC389 **Independent Research Study in Public Health Science**

(Perm req)

This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.

I101	Shannon Edward	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

PHSC399 **Public Health Science Internship**

(Perm req)

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

I101	Shannon Edward	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

PHSC412 **Food, Policy, and Public Health**

Prerequisite: Must have completed HLSA300 with a C- or higher. Recommended: NFSC100. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC412 or SPHL412. Formerly: SPHL412.

Broad overview of the impact of food and food policy on public health. Course covers topics such as access to food, food systems, influence of food policies on the individual, the cost of food, influences on food selection, food safety risks and responses, nutrition-related health challenges, and a comparison of US food/nutrition issues with those of other nations.

WB11	Michael Bazaco	Seats (Total: 30)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

PHSC415 **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

WB11	Jessica O'Hara	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

PHSC450 **Addressing Social and Structural Inequities Through Public Health**

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from either SPHL100 or PHSC300.

A focus on addressing social and structural inequities within race, gender, disability, and class through various perspectives in the field of public health. Students explore the causes, challenges, consequences, and extent these injustices have on health disparities from local, national, and global perspectives. Students view these inequities through the lens of the affected populations, and work interactively and collaboratively to interpret, design, and evaluate public health interventions and approaches to address key health disparities within specific communities. The aim of this course is to help students define appropriate research and address structural inequities with innovative approaches through the professional practice of public health.

WB21	Kendall Bustad	Seats (Total: 60)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

PHSC497 **Public Health Science Capstone**

(Perm req)

Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in PHSC450. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.

The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.

WB11	Lakeshia Watson	Seats (Total: 15)	
	Meets May 28, 2024 - August 16, 2024		
	W 4:00pm - 6:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	
	Summer enrollment is by permission only. Please contact an advisor (phsc@umd.edu) if you are interested in enrolling in Public Health Science Capstone.		
WB12	Lakeshia Watson	Seats (Total: 5)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	
	Summer enrollment is by permission only. Please contact an advisor (phsc@umd.edu) if you are interested in enrolling in Public Health Science Capstone.		

PHYS Physics Summer 2024

PHYS121 **Fundamentals of Physics I**

Prerequisite: MATH113 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee.

0181	Matt Severson	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MW 5:30pm - 7:20pm	PHY 1201	
	TuTh 5:30pm - 7:00pm	PHY 1201	
	TuTh 7:10pm - 9:20pm	PHY 3306	Lab
	MW 7:30pm - 8:20pm	PHY 1201	Discussion

0182	Matt Severson	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MW 5:30pm - 7:20pm	PHY 1201	
	TuTh 5:30pm - 7:00pm	PHY 1201	
	MW 7:30pm - 9:30pm	PHY 3306	Lab
	TuTh 7:10pm - 8:00pm	PHY 1201	Discussion

PHYS122 **Fundamentals of Physics II**

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee.

0201	Paulo Marques	Seats (Total: 26)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 5:30pm - 6:50pm	PHY 2214	
	TuTh 7:00pm - 9:00pm	PHY 3314	Lab
	MW 7:00pm - 8:00pm	PHY 2214	Discussion

PHYS131 **Fundamentals of Physics for Life Sciences I**

Prerequisite: CHEM131; and (MATH136 or MATH140); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 9:30am - 10:50am	PHY 1201	
	TuTh 12:00pm - 1:50pm	PHY 3310	Lab
	MW 11:00am - 11:50am	PHY 1219	Discussion

PHYS132 **Fundamentals of Physics for Life Sciences II**

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

0201	David Buehrle	Seats (Total: 24)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 9:30am - 10:50am	PHY 1402	
	TuTh 12:00pm - 1:50pm	PHY 3312	Lab
	MW 11:00am - 11:50am	PHY 1402	Discussion

PHYS141 **Principles of Physics**

Corequisite: MATH141 or MATH121; or MATH221. Credit only granted for: PHYS141, PHYS161, or PHYS171.

The first of a two-semester series in general physics. The first semester covers the fields of mechanics, thermodynamics, and special relativity. This survey course will use calculus and is recommended for chemistry and zoology majors. It also satisfies the requirements of medical and dental schools.

0181	Matt Severson	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	MW 5:30pm - 7:20pm	PHY 1201	
	TuTh 5:30pm - 7:00pm	PHY 1201	
	TuTh 7:10pm - 9:20pm	PHY 3219	Lab
	MW 7:30pm - 8:20pm	PHY 2124	Discussion

PHYS142 **Principles of Physics**

Prerequisite: PHYS141; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS142, (PHYS260 and PHYS261), or PHYS272.

A continuation of PHYS141 covering waves, electricity and magnetism, optics and modern physics.

0201	Paulo Marques	Seats (Total: 12)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 5:30pm - 6:50pm	PHY 2214	
	TuTh 7:00pm - 9:00pm	PHY 3213	Lab
	MW 7:00pm - 7:50pm	PHY 2124	Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171. Additional information: General Education Natural Sciences Lab (DSNL) Course only when taken concurrently with PHYS275.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

0101	Matt Severson	Seats (Total: 50)	
	Meets May 28, 2024 - July 5, 2024		
	MW 2:00pm - 3:50pm	PHY 1201	
	TuTh 2:30pm - 4:00pm	PHY 1201	
	TuTh 1:30pm - 2:20pm	PHY 1201	Discussion

PHYS260 **General Physics: Electricity, Magnetism and Thermodynamics**

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Electrostatics, magnetism, induction, DC and AC circuits; Maxwell's Equations, heat, and thermodynamics.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	MTuWThF 11:00am - 12:20pm	PHY 2213	
	TuTh 10:00am - 10:50am	PHY 2124	Discussion

PHYS261 **General Physics: Mechanics, Vibrations, Waves, Heat (Laboratory)**

Prerequisite: PHYS161.

Lab includes experiments on mechanics, vibrations, waves, and heat. Engineering majors are expected to take PHYS260 and PHYS261 in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 8, 2024 - August 16, 2024		
	TuTh 1:00pm - 4:00pm	PHY 3219	Lab

PHYS270 **General Physics: Waves, Optics, Relativity and Modern Physics**

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Waves, sound, electromagnetic waves, optics, special theory of relativity, and modern physics.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 11:00am - 12:20pm	PHY 2208	
	MW 10:00am - 10:50am	PHY 1219	Discussion

PHYS271 **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 28, 2024 - July 5, 2024		
	MW 1:00pm - 4:00pm	PHY 3213	Lab

PHYS273 **Introductory Physics: Waves**

Prerequisite: MATH241 and PHYS272; and must have completed or be concurrently enrolled in PHYS274, MATH243 or equivalent.

Mechanical and electrical oscillators, including damped and driven systems; coupled oscillators and normal modes; Fourier series and Fourier transforms; the classical wave equation, traveling and standing waves; reflection and transmission; Maxwell's equations in differential form; physical optics. Extensive use of complex variables.

0101	Hailu Gebremariam	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 2:00pm - 3:20pm	PHY 2124	
WB11	Hailu Gebremariam	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWThF 2:00pm - 3:20pm	ONLINE	

PHYS299 **Special Problems in Physics**

(Perm req)

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS375 **Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics**

Prerequisite: PHYS276 and PHYS273.

Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.

0101	Simone-Gunde Kulin	Seats (Total: 15)	
	Meets May 28, 2024 - July 5, 2024		
	MWF 9:00am - 9:55am	PHY 2124	
	MWF 10:00am - 1:00pm	PHY 3115	Lab

PHYS386 **Experiential Learning**

(Perm req)

0101	Donna Hammer	Seats (Total: 1)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

PHYS398 **Independent Studies Seminar**

(Perm req)

Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.

Contact department for information to register for this course.

PHYS405 **Advanced Experiments**

Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.

Advanced laboratory techniques. Selected experiments from many fields of modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.

0101	Simone-Gunde Kulin	Seats (Total: 10)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 12:00pm - 1:00pm	PHY 2213	
	Contact instructor or department for details.	PHY 2213	Discussion
	W 1:00pm - 1:30pm		

PHYS499 **Special Problems in Physics**

(Perm req)

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499A **Special Problems in Physics**

(Perm req)

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

PLCY Public Policy Summer 2024

PLCY301 **Sustainability**

Cross-listed with: AGNR301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

WB41	Dani Moore **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm	Seats (Total: 30) ONLINE

PLCY309 **Internship in Political Institutions: State and Local**

(Perm req)

Offers students supervised internship placements in state and local political or public policy organizations.

I101	Jennifer Littlefield **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)
I102	Jennifer Littlefield **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 20)
I201	Jennifer Littlefield **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

PLCY359E **Contemporary Issues in Political Leadership and Participation; Ethiopia: Policy and Politics of Economic Development in Africa**

Special topics in political leadership and participation.

Contact department for information to register for this course.

PLCY388Y **Special Topics in Public Policy; Critical Policy Issues on Weapons of Mass Destruction**

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Contact department for information to register for this course.

PLCY611 **Quantitative Analysis of Policy Issues**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY611 or PUAF611. Formerly: PUAF611.

Study of a series of problems and the development of quantitative techniques to describe or evaluate the problem. The organization and interpretation of complex data and its use for prediction and inference about casual effects. The definition of objectives, trade-offs among objectives, and allocation of resources to meet objectives. Sensitivity of outcomes to changing conditions.

WB11	Andrey Yushkov	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	M 7:00pm - 9:30pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY640 **Microeconomic and Policy Analysis**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY640 or PUAF640. Formerly: PUAF640.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

WB11	Michael Busse	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Tu 6:00pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY670 **Public Budgeting & Financial Management**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLYC670 or PUAF670. Formerly: PUAF670.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

WB11	Juan Martinez Guzman	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	W 4:00pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY680 **Examining Social Identity and Pluralism in Public Policy**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY680 or PLCY699D. Formerly: PLCY699D.

Understanding how groups and individuals develop and coexist in society is an essential part of public policy. Using the classroom as a laboratory, students will explore identity development and how the intersections of race, class, gender, sexual orientation, and other identities shape perceptions that inform decision-making and policy development. From historical scholars to current day movement leaders, this course equips students with tools necessary to critically analyze pluralism, power, and identity; and the skills needed to shape meaningful and equitable public policy and working and civic environments for all.

WB11	M Apolonia Calderon Cervantes	Seats (Total: 5)
	Meets May 28, 2024 - August 16, 2024	
	W 6:00pm - 9:30pm	ONLINE
	Not open to students in MPPA, EXPM, EMPM, or Z159.	

PLCY689X **Public Policy Topics; Performance Management and Leadership**

Special Topics in Public Policy.

Contact department for information to register for this course.

PLCY689Y **Public Policy Topics; Nonprofit Fundraising**

Special Topics in Public Policy.

PWL1	Leslie Jefferson	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	MTh 4:00pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	
WB11	Leslie Jefferson	Seats (Total: 10)
	Meets May 28, 2024 - July 5, 2024	
	MTh 4:00pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	NPML Certificate Students should register for section PWL1.	

PLCY698Y **Selected Topics in Public Affairs; Critical Policy Issues on Weapons of Mass Destruction**

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699N **Selected Topics Public Policy; Program Evaluation & Applied Policy Analysis**

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY711 **Public Management and Leadership**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

Contact department for information to register for this course.

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

Contact department for information to register for this course.

PLCY790 **Project Course**

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PLCY798A **Readings in Public Policy**

(Perm req)

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY898 **Pre-Candidacy Research**

(Perm req)

Contact department for information to register for this course.

PLCY899 **Doctoral Dissertation Research**

(Perm req)

Contact department for information to register for this course.

PLSC110 **Introduction to Horticulture**

Credit only granted for: PLSC100 or PLSC110 and PLSC111. Formerly: PLSC100.

An overview to the art and science of horticulture. Relationships between plant science and plant production, the use of horticultural plants and plant stress as influenced by cultural practices.

WB31	Diana Cochran **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

PLSC399 **Special Problems in Plant Science**

(Perm req)

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

Contact department for information to register for this course.

PLSC799 **Master's Thesis Research**
Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**
Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

PSYC Psychology Summer 2024

The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 **Introduction to Psychology**

A basic introductory course intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

WB11	Benjamin Jones **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 75) ONLINE
WB12	Dirk Parham **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 52) ONLINE
WB21	Benjamin Jones **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 75) ONLINE

WB22	Jacob Coutts	Seats (Total: 45)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

PSYC200 **Statistical Methods in Psychology**

Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH136, or MATH140).

A basic introduction to quantitative methods used in psychological research.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Tracy Tomlinson	Seats (Total: 75)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	F 9:00am - 10:45am	ONLINE	Lab

PSYC202 **Introduction to Neuroscience**

Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: NEUR200. Credit only granted for: PSYC309U, NEUR200, PSYC202 or PSYC301. Formerly: PSYC309U.

In an evolutionary sense, the job of the nervous system is to produce, control, and coordinate behaviors that help an animal survive and reproduce. Neuroscience is the study of how the nervous system does that. Provides a broad introduction to neuroscience, always keeping the behavioral consequences in view.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Jeremy Purcell	Seats (Total: 35)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

PSYC221 **Social Psychology**

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, personal perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

040Y	Joseph Barnet **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm	Seats (Total: 5) KNI 1103	
WB11	Dirk Parham **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 50) ONLINE	
YS41	Joseph Barnet **Meets July 8, 2024 - July 26, 2024** MTuWThF 9:00am - 12:00pm *Restricted to students in Terp Young Scholars. Note, there are no prerequisites for students enrolling in the Terp Young Scholars section of PSYC221.*	Seats (Total: 18) KNI 1103	

PSYC234 **Living the Good Life: The Psychology of Happiness**

Credit only granted for: PSYC234 or PSYC289D. Formerly: PSYC289D.

What are the secrets to living a happy life? Can happiness be found within the context of war, a depressed economy, violence and other major stressors? Are some people born happier than others? This course will teach you the scientific process that psychologists use to study happiness (and related emotional variables) and give you the opportunity to practice applying that process in a number of ways. You will learn how we (a) gather and critically evaluate research findings in the existing literature, (b) integrate those findings into coherent and testable theories, (c) design and conduct valid scientific research that tests those theories and extends our knowledge, and (d) effectively communicate our theories and findings to a wide range of audiences. The result of the process is a more accurate and objective understanding of happiness, and that is what prepares you to apply your scientific understanding to explain and influence a wide range of outcomes.

WB11	Abigail Nicolas **Meets May 28, 2024 - July 5, 2024** TuTh 10:00am - 12:00pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE	 Discussion

PSYC237 **Psychology of Evil**

Credit only granted for: PSYC237 or PSYC289E. Formerly: PSYC289E.

Why is there evil in the world? Are some born evil, or do social, environmental and cultural forces create evil? What makes otherwise good people do evil things? The scientific study of evil epitomizes the fundamental challenge that psychology faces in dissecting the role of biology (nature) and the social context (nurture).

Click here for more information about the course.

WB11	Scott Roberts **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE
WB21	Scott Roberts **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE

PSYC300 **Research Methods in Psychology Laboratory**

Prerequisite: PSYC200. Restriction: Must be in Psychology program or Social Data Science - Psychology Track.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Tracy Tomlinson **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs F 9:00am - 12:20pm	Seats (Total: 62) ONLINE ONLINE

PSYC302 **Fundamentals of Learning and Behavior**

Prerequisite: PSYC100, BSCI170, and BSCI171. Restriction: Restricted to psychology majors during the registration period; all other majors will be placed on a hold file.

Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.

WB21	Amanda Chicoli **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 18) ONLINE

PSYC310 **Perception**

Prerequisite: PSYC100. And CHEM103; or PHYS121; or (BSCI160 and BSCI161); or (BSCI170 and BSCI171); or BSCI105; or BSCI106. Restriction: Must not have completed PSYC410.

A survey of phenomena and theories of perception including psychological, anatomical, physiological, and environmental factors important in determining how we perceive the world. Historical background will be examined as well as contemporary research.

WB21	Ana Navarro Cebrian	Seats (Total: 22)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

PSYC332 **Psychology of Human Sexuality**

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

WB51	Maria Wydra	Seats (Total: 35)
	Meets June 17, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

PSYC338D **Special Topics in Study Abroad III; developmental disorders**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC338G **Special Topics in Study Abroad III; The Social Brain: Neuropsychology of Social Behaviors**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC338N **Special Topics in Study Abroad III; Neuroscience of Fear**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC341 **Introduction to Memory and Cognition**

Prerequisite: PSYC200 and PSYC300.

An introduction to the basic concepts of cognitive psychology, the scientific study of mental processes. Topics will include perception, attention, memory, reasoning, and language, with an emphasis on how findings from cognitive psychology can inform real-life thinking (e.g., memory strategies for studying, pitfalls of multitasking, and how/why our memories can fail us).

Contact department for information to register for this course.

PSYC344 **Health Psychology**

Prerequisite: PSYC100; or permission of instructor. Restriction: Must be in the Psychology program; or must be in a major within the School of Public Health; or permission of instructor. Credit only granted for: PSYC489U or PSYC344. Formerly: PSYC489U.

An examination of how psychological, biological, and social factors impact physical health and well-being. Students will use the biopsychosocial model to analyze topics including stress, health disparities, pain, addiction, disease states (e.g., cardiovascular disease, diabetes, cancer), and primary prevention.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Suzanne Friedman	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

PSYC353 **Adult Psychopathology**

Prerequisite: PSYC100. Restriction: Must be in Psychology program or Social Data Science - Psychology Track.

The nature, diagnosis, etiology, and treatment of mental disorders.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Jack Blanchard	Seats (Total: 50)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

PSYC354 **Multicultural Psychology in the U.S.**

Prerequisite: PSYC100.

What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.

WB4Y	Stephanie Yee	Seats (Total: 10)	
	Meets July 8, 2024 - July 26, 2024		
	MTuWThF 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
YW41	Stephanie Yee	Seats (Total: 18)	
	Meets July 8, 2024 - July 26, 2024		
	MTuWThF 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in Terp Young Scholars.		

PSYC355 **Developmental Psychology**

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Kathryn McNaughton	Seats (Total: 51)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

PSYC389 **Experiential Learning**

(Perm req)

Internship in psychology-related fields.

A course for undergraduate psychology majors to earn academic credit for an approved psychology-related internship experience. Information about the course may be obtained in BPS1121, or by contacting the instructor. Restricted to PSYC majors only.

WB11	Steven Young	Seats (Total: 15)	
	Meets May 28, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

PSYC404 **Introduction to Behavioral Pharmacology**

Prerequisite: PSYC202 or NEUR200. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Ana Navarro Cebrian	Seats (Total: 25)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

PSYC433 **Basic Helping Skills: Research and Practice**

Prerequisite: PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits; and must not have completed or be concurrently enrolled in EDCP 310. Credit only granted for: EDCP210, EDCP310, or PSYC433.

Theories and research regarding effective helping relationships, with a focus on applications to counseling and psychotherapy. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Attendance in labs is mandatory and contributes to the course grade; thus, students should only enroll in a lab section that they will be able to attend consistently.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Stephanie Yee	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	MTuWTh 1:00pm - 2:45pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

WB11	Nadia Bounoua	Seats (Total: 22)	
	Meets May 28, 2024 - July 5, 2024		
	MW 10:00am - 11:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

PSYC437 **The Assessment and Treatment of Addictive Behaviors**

Prerequisite: PSYC100; and 9 credits in PSYC courses.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Christopher Seitz-Brown	Seats (Total: 30)	
	Meets July 8, 2024 - August 16, 2024		
	Class time/details on ELMs	ONLINE	

PSYC478 **Independent Study in Psychology**
Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Contact department for information to register for this course.

PSYC489K **Advanced Special Topics in Psychology; Mediation, Moderation, and Conditional Process Analysis**

Treatment of a specialized topic in psychology.

Prerequisite: PSYC300 or permission of the instructor Researchers in psychology and other sciences are driven to discover whether a cause (X) changes an outcome (Y). Although such relationships are the building block of science, it is no longer sufficient to study whether X causes Y given the complexity of theory/statistics. Researchers can instead study when or for whom the size/sign of an effect changes (moderation analysis) or how or by what means one variable transmits its effect on another (mediation analysis). By the end of this class, you will be able to translate research questions into equations, analyze them in software, and interpret the model results.

WB11	Jacob Coutts	Seats (Total: 25)	
	Meets May 28, 2024 - July 5, 2024		
	W 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

PSYC489W **Advanced Special Topics in Psychology; Psychology of Men and Masculinity**

Treatment of a specialized topic in psychology.

What is masculinity, and how does one earn their manhood? What does masculinity look like across cultural differences? How do psychologists and mental health professionals understand and address mental health concerns among men? This course will address psychological theories related to gender development, diversity among men and their experiences, the connection between masculinity and violence, positive masculinity, and mental health concerns specific to men. We will investigate masculinity from an intersectional perspective as well as review and critically analyze research related to men, masculinity, and mental health. Credit only granted for: PSYC489W or HONR249G.

WB11	Monica Kearney	Seats (Total: 30)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	

PSYC625 **Clinical Assessment: Psychometric Principles, Testing and Behavior**

(Perm req)

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC625 or PSYC721. Formerly: PSYC721.

An examination of fundamental principles of psychological assessment; application of these principles to the development of evidence-based assessments of clinical conditions and associated behaviors; and application of evidence-based assessments to the evaluation and understanding of clinical conditions evaluated and treated in therapeutic settings.

0101	Yevgeny Botanov	Seats (Total: 20)
	Meets May 28, 2024 - August 16, 2024	
	Tu 1:00pm - 3:30pm	BPS 1140B

PSYC629B **Clinical Laboratory; Assessment Practicum**

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

WB11	Mary Byrne	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

PSYC629D **Clinical Laboratory; Child and Adolescent Therapy Practicum**

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Christina Danko	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

PSYC629F **Clinical Laboratory; Fundamentals of Supervision and Consultation**

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Christopher Seitz-Brown	Seats (Total: 10)
	Meets May 28, 2024 - August 16, 2024	
	Contact instructor or department for details.	

PSYC632 **Behavioral and Cognitive Behavioral Intervention for Children and Adolescents**

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Formerly: PSYC789A.

Introduces students to the process of therapy with particular focus on behavioral and cognitive behavioral interventions in children and adolescents. Syllabus focuses on theory, research, client diversity, ethics and practical aspects of conducting therapy.

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Susanna Crowell McQuarrie **Meets May 28, 2024 - August 16, 2024** Tu 6:00pm - 9:15pm *Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.*	Seats (Total: 40) BPS 1140AB

PSYC638 **Externship in Professional Psychology**

(Perm req)

Approved appointment as an extern in a mental health setting.

0101	Derek Iwamoto **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
0102	Lea Dougherty **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 15)
I101	Derek Iwamoto **Meets May 28, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 10)
I201	Derek Iwamoto **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

PSYC639 **Internship in Professional Psychology**

This seminar combines involvement with a program approved appointment as an intern in a mental setting with a supervisory review of the training experience.

Contact department for information to register for this course.

PSYC650 **Culture and Diversity in Mental Health**

Restriction: Must be enrolled in the Clinical Psychological Science MPS program.

Review literature regarding the role of culture and diversity in mental health and how culture and diversity are integrated into research and are related to mental health and mental health service utilization. Examine principles and concepts of multicultural and cross-cultural psychology to acquire an increased understanding of diverse underrepresented groups and topics to consider when involved with research and/or clinical work with individuals having diverse backgrounds (e.g., cultures, ethnicities, genders, sexual orientations, and socioeconomic status).

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Christina Danko	Seats (Total: 40)
	Meets May 28, 2024 - August 16, 2024	
	Th 6:00pm - 9:45pm	BPS 1140AB
	Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.	

PSYC652 **Analytical Thinking: Statistical Methods at Work**

Additional information: Students will be taught how to conduct analyses in R, SPSS, SAS, Stata, and excel; students are encouraged to practice analyses on at least two of these programs.

Personal and organizational growth begins with asking and answering great questions. Correspondingly, this course begins with demonstrations of how to translate business questions into research questions. Statistical methods used to answer business questions are taught first conceptually, then computationally using statistical software. This course emphasizes interpreting results, the regression model, and other issues salient to business research, such as handling large datasets. Students will be provided with a simulated dataset that they will use in learning how to frame and answer business questions using the techniques covered in this course. At the conclusion of this course, students will be required to provide an executive-level presentation on the business question, their findings, and resulting implications.

PWI1	Jack Leeds	Seats (Total: 35)
	Meets May 28, 2024 - August 16, 2024	
	M 5:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in the Industrial/Organizational Psychology, Online (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.	

PSYC655 **Talent Development**

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn how to design and implement effective employee training programs as well as how to encourage informal learning in organizations. This course will review current theories in adult learning (e.g., ADDIE model, action learning, peer feedback/coaching), several popular assessment tools (e.g., MBTI), and best practices for evaluating training programs. Issues relevant to leadership identification and development, including succession planning, will also be covered. As part of this course, students will work in teams to design and deliver a brief training module and practice giving and receiving feedback. Additionally, students will complete, and facilitate a debriefing on, a 360-degree feedback assessment.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PWI1	Andrew Naber	Seats (Total: 35)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:00pm - 8:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology, Online (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.		

PSYC656 **Business Fundamentals and Legal Issues facing Organizations**

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course provides an overview of the fundamentals of business, including both issues of finance and legal issues faced by organizations. Topics will include finance, accounting, and marketing. Students will learn core business concepts, about how each major business function enables organizations to run, and how to talk to and understand the leaders of organization. Additionally, this course will provide an overview of common legal challenges organizations face. In addition to introducing students to employment law, this course will review professional ethics standards for IO psychology. This course will use case study methodology to hone students' understanding of the ethical and legal issues faced in day-to-day organizational life.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PCI1	Vineet Gambhir	Seats (Total: 36)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:00pm - 8:00pm	AJC 2134	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.		

PSYC657 **Managing Strategic Organizational Change**

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn to think about organizations as systems and will explore catalysts of organizational change. Issues of strategy, market pressure, competition, workforce planning, and stakeholder buy-in will be discussed. Finally, students will learn about methods for planning, leveraging, and managing organizational change. Case study methodology will be used to deepen learning on the challenges faced during organizational change and how to guide organizations through change, planned or not.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PCI1	David Shar	Seats (Total: 36)	
	Meets May 28, 2024 - August 16, 2024		
	M 5:00pm - 8:00pm	AJC 2134	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.		

PSYC799 **Master's Thesis Research**
Contact department for information to register for this course.

PSYC898 **Pre-Candidacy Research**
Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

RDEV Real Estate Development Summer 2024

RDEV250 **People, Planet, and Profit: Building Sustainable Places**

Cross-listed with: ARCH271. Credit only granted for: ARCH271 or RDEV250.

An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.

WB21	Wayne Curtis	Seats (Total: 30)
	Meets July 8, 2024 - August 16, 2024	
	TuWThF 2:00pm - 3:40pm	ONLINE
	Class time/details on ELMs	ONLINE

RDEV688P **Selected Topics in Real Estate Development; Entrepreneurship for Real Estate Development**

(Perm req)

Selected topics in real estate development.

0201	James Sanders	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	MTh 6:30pm - 10:00pm	EDU 1315

RDEV689N **Current Topics in Real Estate Development; Construction Methods and Materials: Introduction**

(Perm req)

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Prerequisite: permission of department.

0101	Robert McClennan	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	MTh 6:30pm - 10:15pm	SQH 1111

RDEV689O **Current Topics in Real Estate Development; Scandinavia: Culture and Place**

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Contact department for information to register for this course.

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Permission of the department required to register.

Contact department for information to register for this course.

RUSS Russian Summer 2024

RUSS398G **Selected Topics in Russian Language and Literature; Russian Grammar**

Prerequisite: RUSS 102 or higher. Course covers the basic grammatical categories of conjugations and declensions, including analysis of aspect, case usage. Students level will be assessed at the beginning of the course so that assignments may be individualized as appropriate.

WB11	Cynthia Martin **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 15) ONLINE

SOCY Sociology Summer 2024

SOCY100 **Introduction to Sociology**

Introduces fundamental concepts and theories of sociology. Guided by C. Wright Mills' "sociological imagination," the course promotes critical thinking; challenges conventional assumptions about culture politics, history, and psychology; and equips students with theoretical approaches and research methods to analyze various sociological topics, including family, work, education, religion, social movements, and issues related to class, gender, race, and ethnic inequalities.

WB31	Jeffrey Parsells-Johnson **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB32	Christopher Malackany **Meets May 28, 2024 - June 14, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB51	Robyn Moore **Meets June 17, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB61	Asiah Gayfield **Meets July 29, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 20) ONLINE

SOCY201 **Introductory Statistics for Sociology**

Prerequisite: SOCY100; and (MATH107 or MATH111). Restriction: Must not have completed STAT400, BMGT231, or ENEE324.

Students will explore descriptive and inferential statistics. You will hone your quantitative analytical skills to construct impactful bivariate tables, craft frequency distributions, and decipher measures of central tendency and dispersion. Additionally, you will master the techniques of hypothesis testing, chi-square, ANOVA, and ordinary least squares regression, equipping you to seamlessly translate data into meaningful research insights.

WB11	Hyejin Jeon	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	Class time/details on ELMs	ONLINE	
	MTu 9:00am - 11:00am	ONLINE	Lab

SOCY203 **Sociological Theory**

Prerequisite: SOCY100.

Examines major trends in the history and development of sociological thought, including theories of inequality, the self, institutions, and more. With each theorist students will learn what sociologists assume and focus on when studying societies.

WB11	Brian Connor	Seats (Total: 20)	
	Meets May 28, 2024 - July 5, 2024		
	TuTh 12:00pm - 2:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	

SOCY230 **Sociological Social Psychology**

Why do people do that? Sitting at the nexus of sociology and psychology, this course surveys the various ways in which sociologists have answered this question. We investigate individuals-for example, how they develop and understand themselves in relation to others, how they choose to present themselves to the world, and how they form thoughts and opinions. And we study larger units of analyses, from small groups to the broader society. Topics covered include socialization, identity formation, social influence, group processes, how social processes shape individual behavior, and how human behavior shapes society.

WB31	Simone Durham	Seats (Total: 20)	
	Meets May 28, 2024 - June 14, 2024		
	Class time/details on ELMs	ONLINE	

SOCY325 **The Sociology of Gender**

Prerequisite: 3 credits in SOCY courses. Cross-listed with: WGSS325. Credit only granted for: SOCY325, WMST325 or WGSS325. Formerly: WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

WB41	Jessica Shotwell	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

SOCY386 **Experiential Learning**

(Perm req)

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

Contact department for information to register for this course.

SOCY399 **Independent Study in Sociology**

(Perm req)

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

Contact department for information to register for this course.

SOCY432 **Social Movements**

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

This course broadens students' understanding of social movements in the United States. Many topics are discussed, including the emergence of social movements, why people join social movements, collective identity, gender, culture, emotions, tactics, repression, and the decline of social movements. Various movements are reviewed, including the civil rights movement, the Chicano movement, the women's movement, the LGBTQ movement, the white power movement, the American Indian movement, and the animal rights movement.

WB31	Danielle Koonce	Seats (Total: 25)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

SOCY450 **Investigating Women's Empowerment in Low and Middle Income Countries**

Prerequisite: SOCY201 and SOCY202; or permission of BSOS-Sociology department.

Students in this course will learn how the study of women's empowerment in low and middle income countries (LMICs) has developed, its current state of measurement, and new avenues to pursue in the future. Examining the extensive research on gender-based inequalities in educational attainment, employment rates, and health status, students will investigate how power imbalances across individuals, households, and institutional factors result in persistent inequality. Bringing an intersectional perspective to the forefront of the course, we will study how to design effective intervention policies that seek to improve the daily lives of women, girls and their families.

WB31	Amy McLaughlin	Seats (Total: 20)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE

SOCY498B **Selected Topics in Sociology; Sociology of Climate Change**

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Climate change is one of the most urgent and consequential issues of the twenty-first century and understanding the social dimensions of climate change is an inherently sociological concern. In this course we will look at: 1) the social causes of climate change and how social structure informs human relationships with the environment, 2) the social impacts of climate change and how inequality and power intersect with ecological risks, and 3) how societies are responding or not responding to climate change.

WB42	Mary DeStefano	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	

SOCY498I **Selected Topics in Sociology; Qualitative Content Analysis**

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

WB21	Angelica Loblack	Seats (Total: 20)	
	Meets July 8, 2024 - August 16, 2024		
	TuTh 11:00am - 12:15pm	ONLINE	
	Class time/details on ELMs	ONLINE	

SOCY498V **Selected Topics in Sociology; Sociology of Sport and Film**

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

WB41	Katelyn Foltz	Seats (Total: 20)	
	Meets July 8, 2024 - July 26, 2024		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

SOCY670 **Applied Research Methods and Technological Training Approaches**

Restriction: Must be in one of the following programs: Public Safety Leadership and Administration (MPS); Leadership in Diverse Organizations certificate; Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from BSOS-Sociology department.

Introduces students to the purpose, methodology, analysis, and ethics of social science research, especially in the areas of criminal justice and law enforcement. Students will engage in the research process from developing a research question, designing, and conducting a thorough research study, and collecting data for analysis and findings. Both qualitative and quantitative research models will be shared to facilitate students' learning around methodological inquiry and interpretation, including survey design, literature reviews, and report writing. Additionally, students will be exposed to contemporary models impacting law enforcement and public officials, such as algorithmic bias, facial recognition, and individual and community surveillance. At the end of the course, students will be expected to complete a research paper after submission of a research proposal to complete course requirements.

PLL1	Nicol Lee	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.	

SOCY699 **Special Social Problems**
Contact department for information to register for this course.

SOCY758 **Advanced Special Topics in Sex Roles**

An intensive review of an area of current interest in the field, including such topics as labor force participation; comparative studies; sex roles and aging; gender socialization.

WB11	Meredith Kleykamp	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	For graduate students in the Department of Sociology only.	

SOCY799 **Master's Thesis Research**
Contact department for information to register for this course.

SOCY898 **Pre-Candidacy Research**
Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

SPAN Spanish Summer 2024

SPAN103 **Intensive Elementary Spanish**

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Karina De Sande	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

WB21	Noelia Mantilla	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN169W **Special Topics in Study Abroad I; Introduction to Spanish Lanuage I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169Z **Special Topics in Study Abroad I; Introduction to Spanish Lanuage II**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN171 **Beginning Conversational Spanish for the Health Professions**

This course introduces students to beginning medical conversational Spanish, covering basic linguistic and intercultural skills needed in the health profession. Topics covered include: making introductions, basic questions for patient assessment, instructions (commands), basic medical terminology for anatomy, medical history, and assessment, etc. The course will address intercultural skills to facilitate better communication between healthcare providers and the Spanish-speaking community, such as: addressing the latina/o patient, cultural norms related to commands, gender differences, communication with elders, quantification and cultural expressions of pain, physical contact and modesty. This course will take a practical methodological approach, with a range of structured situational activities and simulations of what students may encounter in real medical contexts to improve language proficiency and cultural competency.

0601	Evelyn Canabal-Torres	Seats (Total: 15)
	Meets July 29, 2024 - August 16, 2024	
	TuTh 5:00pm - 7:00pm W 5:00pm - 7:00pm	ONLINE PLS 1158

SPAN203 **Intensive Intermediate Spanish**

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Samuel Aguayo	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB12	Jorge Bayas	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB21	Ofelia Montelongo Valencia	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB22	Maria Srur	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN204 **Spanish Grammar Review**

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

WB11	Andrea Torres Armas	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN207 **Reading and Writing in Spanish**

Prerequisite: Must have completed or be concurrently enrolled in SPAN204; or must have appropriate World Language Placement Test (WLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

WB11	Chila Hidalgo	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN269I **Special Topics in Study Abroad II; Intensive Intermediate Spanish**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN269P **Special Topics in Study Abroad II; Spanish Oral Techniques**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

WB11	Gianinna Malatesta	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB21	Maria Herrera Arvay	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN302 **Advanced Grammar and Composition II**

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

Contact department for information to register for this course.

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

WB11	Daniela Hernandez	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN311 **Advanced Communication I**

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303. Restriction: Must not be a native/fluent speaker of Spanish.

Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.

WB21	Jackson Monzon	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN312 **Advanced Conversation II**

Prerequisite: SPAN311. Restriction: Must not be a native/fluent speaker of Spanish.

Continued mastery of listening and speaking skills in Spanish. Opportunity to develop oral fluency, improve pronunciation, and increase vocabulary. Emphasis on colloquial and technical language as well as development of linguistic accuracy. Individual and/or group oral presentation.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN363 **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

WB11	Ligia Gonzalez	Seats (Total: 15)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN369C **Special Topics in Study Abroad III; Spanish Culture and History**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN401 **Advanced Composition I**

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408J **Special Topics in Iberian and Latin American Studies; Contemporary Mexican Literature**

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408X **Special Topics in Iberian and Latin American Studies; Spain: Salamanca and Barcelona**

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408Y **Special Topics in Iberian and Latin American Studies; Contemporary Spanish Short Story**

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409B **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN448M **Special Topics in Latin American Civilization; Contemporary Puerto Rican Musicality: Sounds and Lyrics**

Intensive independent study of a selected topic related to Latin American civilization.

Bomba, plena, danza, salsa, merengue, bachata, reggaeton, musica independiente. This course aims to immerse the student in the cultural intricacies and imaginaries of the Puerto Rican musical experience. How does a song capture its temporal and existential immediacy? Furthermore, can such representation evolve into a contemplation of contemporary times? What constitutes a musical representation of the contemporary in Puerto Rico? This course will explore a curated selection of literary texts, essays, songs, videos, and "especiales" to initiate a conversation on the concept of the contemporary Puerto Rican soundscape. Taught in Spanish.

WB11	Juan Carlos Quintero-Herencia **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 25) ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN464 **Contemporary Spanish Poetry**

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN474 **Central American Literatures, Cultures, and Histories**

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

An overview of Central American history and cultural production, focusing primarily but not exclusively on literary texts.

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

SPHL Public Health Summer 2024

SPHL100 **Foundations of Public Health**

Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.

WB11	Sylvette La Touche-Howard **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB12	Sylvette La Touche-Howard **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

WB13	Sylvette La Touche-Howard	Seats (Total: 40)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

SPHL602 **Foundations of Epidemiology and Biostatistics**

Recommended: Recommend SPHL603 as a co-requisite course. Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL602 or EPIB610 and EPIB650.

An introduction to conceptual and practical tools from epidemiology and biostatistics that are necessary for the study of public health problems. Students learn epidemiologic concepts and methods, and basic statistical concepts and procedures used in public health research through applications, hands-on experience, and interpretations of statistical findings.

WB11	Jamie Trevitt	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	This section is not restricted during the summer. Any graduate student may enroll. Incoming in-person MPH/MHA students admitted for the Fall 2021 should register only for the fall semester offering.	

SPHL603 **Public Health Data Laboratory**

Corequisite: SPHL602. Restriction: Must be a graduate student within the School of Public Health.

An introduction to the statistical software necessary to implement the epidemiology and biostatistics concepts covered in the course EPIB 602, Foundations of Epidemiology and Biostatistics through hands-on exercises.

WB11	Jamie Trevitt	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

STAT Statistics and Probability Summer 2024

STAT100 **Elementary Statistics and Probability**

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any STAT course with a prerequisite of MATH141. Cross-listed with: DATA100. Credit only granted for: DATA100 or STAT100.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

WB11	Matthew Griffin **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 42) ONLINE
WB12	Ran Li **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE
WB21	Mohammed Rahman **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE

STAT110 **Applications of R for Data Science**

Prerequisite: DATA100, STAT100, or MATH135; or any 400-level STAT course. Cross-listed with: DATA110. Credit only granted for: STAT110 or DATA110.

Intended to prepare students for subsequent courses requiring computation with R, providing powerful and easy to use tools for statistical data analysis. Covers basics of R and R Studio including file handling, data simulation, graphical displays, vector and function operations, probability distributions, and inferential techniques for data analysis.

WB21	Susan Mazzullo **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 40) ONLINE

STAT400 **Applied Probability and Statistics I**

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Cross-listed with: DATA400. Credit only granted for: DATA400, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

WB11	Mestiyage Gunatilleka **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 45) ONLINE
WB12	Ishfaaq Mohammed Imtiyas **Meets May 28, 2024 - July 5, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 45) ONLINE

WB13	Hatice Sahinoglu **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE
WB21	James Kwon **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 42) ONLINE

STAT401 **Applied Probability and Statistics II**

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

WB21	Mestiyage Gunatilleka **Meets July 8, 2024 - August 16, 2024** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

STAT410 **Introduction to Probability Theory**

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Cross-listed with: SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

WB11	Jonathan Fernandes **Meets May 28, 2024 - July 5, 2024** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

STAT430 **Introduction to Statistical Computing with SAS**

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410); and must have completed or be concurrently enrolled in STAT401 or STAT420; students who do not meet the STAT401 or STAT420 requirement but who have taken a statistics course may contact the math department to confirm eligibility.

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

WB21	Susan Mazzullo	Seats (Total: 20)
	Meets July 8, 2024 - August 16, 2024	
	MTuWThF 9:30am - 10:50am	ONLINE

STAT470 **Actuarial Mathematics**

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Recommended: STAT400.

Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.

WB11	Matthew Griffin	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	MTuWThF 9:30am - 10:50am	ONLINE

STAT498A **Selected Topics in Statistics**

(Perm req)

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT698A **Selected Topics in Probability**

(Perm req)

Contact department for information to register for this course.

STAT798A **Selected Topics in Statistics**

(Perm req)

Contact department for information to register for this course.

STAT799 **Master's Thesis Research**

(Perm req)

Contact department for information to register for this course.

STAT898 **Pre-Candidacy Research**
Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

SURV Survey and Data Science Summer 2024

SURV611 **Review of Statistical Concepts**

Credit only granted for: SURV699M or SURV611. Formerly: SURV699M.

Basics of probability and statistics. Students will review basic probability concepts and probability distributions, the Central Limit Theorem and hypothesis testing, and linear and logistic regression. Throughout this course, students should develop and reinforce proper statistical intuition. This includes knowing how to identify a sample and a population and applying appropriate statistical methods such as hypothesis testing, as well being able to identify different types of data and using the proper methods for each type of data. By the end of the course, students should have a strong foundation in statistics with which they can start their graduate coursework.

PLS1	Anna-Carolina Haensch	Seats (Total: 15)
	Meets June 5, 2024 - August 21, 2024	
	W 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV624 **Privacy Law**

Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

To acquaint the students with the origins and basic principles of privacy law mainly in Europe. Furthermore, it will contrast the European privacy foundations with the U.S. approach. At the core of this course stands the new European General Data Protection Regulation (GDPR) and its applicability to specific cases and basic principles. Moreover, the course will cover current challenges to the existing privacy paradigms by big data and big data analytics.

PLS1	Thomas Fetzer	Seats (Total: 15)
	Meets July 11, 2024 - August 1, 2024	
	Th 1:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV656 **Web Survey Methodology**

Prerequisite: Must have completed SURV400; or must have completed SURV623; or permission of instructor. And permission of BSOS-Joint Program in Survey Methodology department.

Fundamental concepts of web surveys and web survey design. The course is organized in 3 main sections which follow the way a proper web survey is organized: prefielding, fielding and post fielding.

PLS1	Jernej Berzelak	Seats (Total: 15)
	Meets June 4, 2024 - July 30, 2024	
	Tu 1:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	
PLS2	Jernej Berzelak	Seats (Total: 15)
	Meets June 6, 2024 - August 1, 2024	
	Th 12:00pm - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV673 **Introduction to Python and SQL**

Recommended: Background knowledge in programming in Python and SQL structures.

Basics of Python and SQL for data analysis.Students will explore real publicly-available datasets, using the data analysis toolsin Python to create summaries and generate visualizations. Students will learn thebasics of database management and organization, as well as learn how to code inSQL and work with PostgreSQL databases. By the end of the class, students shouldunderstand how to read in data from CSV files or from the internet and becomfortable using either SQL or Python to aggregate, summarize, describe, andvisualize these datasets.

PLS1	Diego Fregolent Mendes de Oliveira	Seats (Total: 15)
	Meets June 6, 2024 - June 27, 2024	
	Th 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV725 **Item Nonresponse and Imputation**

Prerequisite: Be comfortable with generalized linear models and basic probability theory through coursework or work experience; and familiarity with the statistical software R. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Missing data are a common problem which can lead to biased results if the missingness is not taken into account at the analysis stage. Imputation is often suggested as a strategy to deal with item nonresponse allowing the analyst to use standard complete data methods after the imputation. However, several misconceptions about the aims and goals of imputation make some users skeptical about the approach. In this course we will illustrate why thinking about the missing data is important and clarify which goals a useful imputation method should try to achieve.

PLS1	Joerg Drechsler	Seats (Total: 15)
	Meets June 17, 2024 - July 15, 2024	
	M 12:00pm - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV736 **Introduction to Web Scraping with R**

Prerequisite: Students are expected to be familiar with the statistical software R. Recommended: Knowledge about the tidyverse packages, in particular, dplyr, plyr, magrittr, and stringr. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Provides a condensed overview of web technologies and techniques to collect data from the web in an automated way. To this end, students will use the statistical software R. The course introduces fundamental parts of web architecture and data transmission on the web. Furthermore, students will learn how to scrape content from static and dynamic web pages and connect to APIs from popular web services. Finally, practical and ethical issues of web data collection are discussed.

PLS1	Sascha Gobel	Seats (Total: 15)
	Meets July 12, 2024 - August 2, 2024	
	F 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	
PLS2	Sascha Gobel	Seats (Total: 15)
	Meets July 8, 2024 - July 29, 2024	
	M 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

THET Theatre Summer 2024

THET110 **Introduction to the Theatre**

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

WB21	Melissa Sturges	Seats (Total: 13)
	Meets July 8, 2024 - August 16, 2024	
	MTuW 10:00am - 12:15pm	ONLINE

THET251 **Broadway Mashup: Remixing America Through Musical Theater**

Interrogate musical theater's political history, investigating how this uniquely American genre uses narrative, song, and dance to weave critical differences across race, ethnicity, immigration status, religion, gender, sexuality, and ability into our national fabric.

WB11	Amber Daniels	Seats (Total: 18)
	Meets May 28, 2024 - July 5, 2024	
	Tu 11:00am - 12:15pm	ONLINE
	Class time/details on ELMs	ONLINE

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

THET269M **Special Topics in Study Abroad II; Meaning of Style**

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

THET285 **The Art of Communication and Presentation**

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

WB20	Eran Eads	Seats (Total: 15)
	Meets July 8, 2024 - August 16, 2024	
	MTuW 1:00pm - 3:15pm	ONLINE

THET328C **Special Topics in Intermediate Theatre and Performance; Foundations of Screen Acting**

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

This introductory course offers a step by step process for the performer to dive into the basics of screen acting. Adjusting the actor's work from stage to film is emphasized. Technique also includes awareness of eye-line, pacing, and camera angle. Through self-taped/filmed monologue and scene work, students will learn critical tools for performance success in this new virtual medium. Access to a computer and smartphone (or other basic video recording device) needed.

WB61	Lisa Nathans	Seats (Total: 15)
	Meets July 29, 2024 - August 16, 2024	
	MWF 10:00am - 12:15pm	ONLINE

THET328R **Special Topics in Intermediate Theatre and Performance; Voice for Voice-Overs**

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Learn how to use your voice to make money at home and on the road! This course introduces you to various genres of voice-over acting, including radio/television commercials, audio-book narration, and animation for video games/film/TV. Curriculum focuses on voice-over technique, but touches on the business of the voice-over business, specifically helping you set up your own 'at-home' voice-over recording studio on a budget. Access to a computer and smartphone (or other basic audio recording device) needed.

WB41	Lisa Nathans	Seats (Total: 15)
	Meets July 8, 2024 - July 26, 2024	
	MWF 10:00am - 12:15pm	ONLINE

THET428E **Special Topics in Advanced Theatre and Performance; Literature, Art and Architecture in London**

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Cross-listed with ENGL409M. Credit only granted for ENGL409M or THET428E. This course is an in-depth look at the best of British Culture. It has six focal points: History, Literature, and Drama as well as Art History, Archaeology, and Architecture. Lectures and discussions are conducted via Zoom as the class makes its way around London through time and space, looking at historic and archaeological sites, buildings, galleries, museums, and backstage at several theatres and rehearsal spaces. There are also guest lectures by friends working in such fields as theatre, archaeology, architecture, geology, historical biology, and local history. The class will also watch the streaming version of London plays. The archaeological BBC show, TIME TEAM, will be used to investigate sites associated with London in various times. Some guest lectures might take place outside of normal synchronous class hours. Students are expected to write several short papers on various topics.

Contact department for information to register for this course.

THET499 **Independent Study**

(Perm req)

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET789 **Theatre Design Process and Production**

(Perm req)

The class encompasses various areas of pedagogical interactions between MFAD students and their mentors which include, but are not limited to: design advising and supervision for mainstage design assignments and professional projects outside the School, production process supervision (shop walkthroughs, fittings, technical rehearsals, note sessions), mandatory design critiques, assisting faculty members on outside professional projects etc.

Contact department for information to register for this course.

THET799 **MFA Theatre Design Thesis**

(Perm req)

Projects are assigned and approved as Thesis by the student's primary faculty mentor. Projects fall into three categories: 1) realized mainstage designs at the Clarice Smith Performing Arts Center; 2) realized designs at professional venues outside the University; 3) theoretical designs.

Contact department for information to register for this course.

THET899 **Doctoral Dissertation Research**
Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership Summer 2024

TLPL288K **Childhood Reimagined: Learning In and Out of Schools**

Credit only granted for: TLPL288K or TLPL210. Formerly: TLPL288K.

Surveys innovative approaches to child education, including unschooling, homeschooling, blended instruction, place-based learning, Big Picture Learning, democratic schools, microschools, self-directed learning centers, and other alternatives to traditional schools.

WB21	Kellie Rolstad	Seats (Total: 18)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

TLPL413 **Teaching and Learning Middle School Mathematics**

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI457 or TLPL413. Formerly: EDCI457.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore TLPL413 students will be expected to travel to a local middle school for 8-10 of the class meetings.

Contact department for information to register for this course.

TLPL420 **Knowledge, Reasoning, and Learning in Science**

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL420 or EDCI411. Formerly: EDCI411.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

Contact department for information to register for this course.

TLPL435 **Art Education Methods I**

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. And must be in Secondary Educ: Art program; or must be in Secondary Educ: Art pre-major program. Credit only granted for: EDCI405 or TLPL435. Formerly: EDCI405.

Methods I provides future art teachers with a knowledge base of the theories and best practices of effective pedagogy for: teaching methods and strategies, diversity, motivational techniques, classroom management, assessment and evaluation methods, and accommodating all students including those with special needs.

Contact department for information to register for this course.

TLPL470 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75. Credit only granted for: EDCI426 or TLPL470. Formerly: EDCI426.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

Contact department for information to register for this course.

TLPL488C **Special Topics in Education; Teaching Academically, Culturally and Linguistically Diverse Students in Elementary Education**

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Seyma Intepe Tingir	Seats (Total: 5)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details. Class time/details on ELMs	ONLINE
	For information on in person meetings, contact the course instructor: Seyma Intepe Tingir sintepe@umd.edu	

TLPL498 **Special Problems in Education**

Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.

Contact department for information to register for this course.

TLPL614 **Assessing Mathematical Understanding**

Prerequisite: TLPL610; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI654 or TLPL614. Formerly: EDCI654.

Techniques of assessing k-12 students' understanding of mathematics - including standardized tests, but focusing on alternative forms such as individual interviews, writing tasks, performance tasks, portfolios. Mathematics assessment viewed as an ongoing part of instruction.

PVL1	Angela Stoltz	Seats (Total: 25)
	Meets May 21, 2024 - July 3, 2024	
	Tu 5:00pm - 7:45pm	BLD3 3226
	Must be in Curriculum and Instruction (M.Ed.), Middle School Math to register. Beginning June 17, the course will meet on Monday, Tuesday, Wednesday, and Thursday until July 3 (excluding Juneteenth)	

TLPL625 **Teaching Science in Elementary Schools**

Credit only granted for: EDCI671 or TLPL625. Formerly: EDCI671.

Identification of problems in teaching science. Methods for improving the effectiveness of science education.

PUK1	Daman Harris	Seats (Total: 20)
	Meets May 13, 2024 - June 21, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	

TLPL641 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credit only granted for: EDCI625 or TLPL641. Formerly: EDCI625.

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

Contact department for information to register for this course.

TLPL642 **Processes and Acquisition of Reading**

Restriction: For Master's Certification Students only; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI626 or TLPL642. Formerly: EDCI626.

Addresses the ways in which social, cultural, cognitive and motivation factors influence the development of literacy. Focus is on reading acquisition and its underlying processes. Topics include language development in relation to reading development; the biological basis of this development; concepts in emergent literacy; models of reading acquisition and skilled reading; the effects of phonemic awareness and phonics on developing readers; factors in early childhood environments and in beginning literacy instruction that impact language and literacy achievement.

Contact department for information to register for this course.

TLPL646 **Linguistics in Education**

Provides teachers and educational researchers with the theoretical and technical knowledge of linguistics necessary to engage effectively in their fields.

WB11	Jeff MacSwan	Seats (Total: 10)
	Meets June 3, 2024 - June 28, 2024	
	Class time/details on ELMs	ONLINE

TLPL647 **Diagnostic Reading Assessment and Instruction**

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI662 or TLPL647. Formerly: EDCI662.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

TLPL660 **Foundations of Literacy and Biliteracy Development**

Prerequisite: TLPL665. Credit only granted for: EDCI636 or TLPL660. Formerly: EDCI636.

An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.

PUK1	Shannon Kane	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	

TLPL664 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credit only granted for: EDCI630 or TLPL664. Formerly: EDCI630.

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

WB11	Jeff MacSwan	Seats (Total: 10)
	Meets June 3, 2024 - June 27, 2024	
	Class time/details on ELMs	ONLINE

TLPL665 **Methods of Teaching ESOL**

Credit only granted for: EDCI634 or TLPL665. Formerly: EDCI634.

Draws on current research to present methods of teaching English to speakers of other languages and challenges participants to analyze and apply successful classroom practices that address the needs of culturally and linguistically diverse learners (also known as English Language Learners, English Learners).

Contact department for information to register for this course.

TLPL680 **Foundations of Education**

Credit only granted for: TLPL688B or TLPL680. Formerly: TLPL688B.

An examination of the history and impact of US schools, with emphasis on how schools could achieve the promise of a high-quality, world-class education for the students they serve.

0201	Karen Rehder	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	MTuWTh 10:00am - 1:00pm	TWS 0207

TLPL685 **Teaching Social Studies in Elementary Schools**

Credit only granted for: EDCI622 or TLPL685. Formerly: EDCI622.

Examination of current literature and research in the social sciences as they relate to social studies curriculum and instruction.

PUK1	David Peake	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	
PUK2	David Peake	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE
	Must be in Curriculum and Instruction (M.Ed.), CITE to register.	

TLPL688C **Special Topics in Education; Engineering**

Special treatment of current topics and issues in teaching, learning, policy and leadership.

PVJ1	Jonathan Rivera	Seats (Total: 15)
	Meets June 19, 2024 - July 5, 2024	
	MTuWF 5:00pm - 8:00pm	BLD3 3202
	Must be MCSTEM M.ED program to register. Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section. Class meets in person on 6/20, 6/21, and 7/2. All other class meetings will be held synchronously online.	

TLPL688I **Special Topics in Education; Art Integration**

Special treatment of current topics and issues in teaching, learning, policy and leadership.

WB61	Margaret Walker	Seats (Total: 15)
	Meets July 29, 2024 - August 16, 2024	
	MTuWTh 8:30am - 5:00pm	ONLINE

TLPL689 **Internship in Education**

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL690 **Critical Literacies, Digital Technology & Instruction for Diverse Classrooms**

(Perm req)

Focuses on issues related to critical literacy, digital technology, and literacy instruction, including the impact of media and various technologies on teachers and students.

Prerequisite: TLPL644

WB31	Ayanna Baccus	Seats (Total: 10)
	Meets May 28, 2024 - June 14, 2024	
	MTuWThF 5:00pm - 7:45pm	ONLINE

TLPL691 **Research Methods**

Credit only granted for: EDCI685 or TLPL691. Formerly: EDCI685.

The interpretation and conduct of research relevant to curriculum, teaching and learning.

0101	Wayne Slater	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 4:30pm - 7:45pm Class time/details on ELMs	TWS 1313 ONLINE

TLPL694 **Embracing Diversity: Critical Foundations of Schooling and Education**

Introduces teacher candidates to critical, sociocultural foundations of U.S. schooling, education, and society. Teacher candidates interrogate what it means to be an anti-racist, social justice-oriented educator in a pluralistic classroom.

Contact department for information to register for this course.

TLPL698 **Conducting Research on Teaching**

Analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project. Open only to students admitted to approved teacher education programs.

PUJ1	Beatriz Quintos Alonso **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 15) ONLINE
PUL1	Farhaana Nyamekye-Frazier **Meets April 30, 2024 - July 3, 2024** Tu 5:00pm - 7:45pm *Must be in Curriculum and Instruction (M.Ed.), Middle School Math to register.*	Seats (Total: 25) ONLINE

TLPL699 **Master's Seminar**

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

TLPL733 **Advanced Clinical Practices in Reading Assessment**

Prerequisite: TLPL654. Corequisite: TLPL734. Credit only granted for: EDCI761 or TLPL733. Formerly: EDCI761.

Clinical practicum in assessment focusing on strengths and needs in reading. Case report writing and conferences.

0101	Ayanna Baccus **Meets June 24, 2024 - July 31, 2024** MTuWTh 9:00am - 12:00pm *Course will meet in EDU 2212A*	Seats (Total: 20) Location: TBA

TLPL734 **Advanced Clinical Practices in Reading Instruction**

Prerequisite: TLPL654. Corequisite: TLPL733. Credit only granted for: EDCI762 or TLPL734. Formerly: EDCI762.

Clinical practicum in instruction focusing on instructional techniques and diagnostic teaching.

0101	Ayanna Baccus	Seats (Total: 20)
	Meets June 24, 2024 - July 31, 2024	
	MTuWTh 1:00pm - 4:00pm	Location: TBA
	Course will meet in EDU 2212A	

TLPL780 **Contested Control: School Choice, Localism, and Centralization**

Credit only granted for: TLPL788X or TLPL780. Formerly: TLPL788X.

Taking the local school district as its field of inquiry, this course will examine a series of common, seemingly unobjectionable terms--"democracy," "markets," "choice," "public," "private," etc.--each of which represents very different visions of school governance and political organization. Readings will explore the nature of social justice, efficacy, and civic participation within school districts, and will do so not merely through a lens of power but of authority in the sense of moral legitimacy. Ultimately, the readings return to one simple question: Who should control the schools? Through its examination of school district governance, this course will prepare students for work in local and state policy. It will also approach issues from a variety of ideological perspectives and bolster students' knowledge of historical, philosophical, and political approaches to education.

WB11	Campbell Scribner	Seats (Total: 20)
	Meets May 28, 2024 - July 5, 2024	
	TuTh 4:05pm - 7:15pm	ONLINE

TLPL791 **Qualitative Research I: Design and Fieldwork**

Prerequisite: EDCI790. Credit only granted for: EDCI791 or TLPL791. Formerly: EDCI791.

Examines the theoretical and epistemological moorings of different types of qualitative research. Students apply selected field research methods to problems of professional practice in schools and communities while considering central issues and dilemmas that arise while engaging in fieldwork.

TLPL EdD Outreach program. Registration is restricted to program participants.

PUH2	Luis Penton Herrera, Drew Fagan	Seats (Total: 20)	
	Meets July 1, 2024 - July 18, 2024		
	TuWTh 9:00am - 1:15pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

TLPL798 **Special Problems in Education**

Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.

Contact department for information to register for this course.

TLPL799 **Master's Thesis Research**

I118	Wayne Slater **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)

TLPL888 **Apprenticeship in Education**

(Perm req)

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

TLPL889 **Internship in Education**

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

0115	Andrew Elby **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0215	Andrew Elby **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I111	Janet Walkoe **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I135	Jing Liu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I205	David Weintrop **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I211	Janet Walkoe **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I221	John O'Flahavan **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I235	Jing Liu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

TLPL898 **Pre-Candidacy Research**

0107	James McGinnis **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0125	David Blazar **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0207	James McGinnis **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

TLPL899 **Doctoral Dissertation Research**

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

0111	Janet Walkoe **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0112	Andrew Brantlinger **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0211	Janet Walkoe **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0212	Andrew Brantlinger **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0216	Betty Malen **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0218	Wayne Slater **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0220	Francine Hultgren **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I111	Janet Walkoe **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I124	Jennifer Turner **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I125	David Blazar **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I129	Peter Afflerbach **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I136	Tamara Clegg **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I138	Diane Ketelhut **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
I211	Janet Walkoe **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I214	Campbell Scribner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I215	Andrew Elby **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I220	Francine Hultgren **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I221	John O'Flahavan **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I224	Jennifer Turner **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I225	David Blazar **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I228	Tara Brown **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I229	Peter Afflerbach **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I237	Daniel Levin **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
I238	Diane Ketelhut **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

I279	Imani Goffney	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	

UMEI Maryland English Institute Summer 2024

UMEI012 **Integrated English: Intermediate**

(Perm req)

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language course for students at the intermediate level.

UM10	Heather Mehrtens	Seats (Total: 15)
	Meets June 4, 2024 - July 19, 2024	
	MTuWTh 9:00am - 12:30pm	TWS 0234

UMEI013 **Integrated English: Advanced**

(Perm req)

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language for students at the advanced level.

UM10	Heather Mehrtens	Seats (Total: 15)
	Meets June 4, 2024 - July 19, 2024	
	MTuWTh 9:00am - 12:30pm	TWS 0234

UMEI028V **Special Topics in English as a Second Language; Vocabulary**

(Perm req)

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

UM10	Louise Godley	Seats (Total: 15)
	Meets June 4, 2024 - July 19, 2024	
	W 1:30pm - 3:30pm	TWS 1313
	F 10:00am - 2:00pm	TWS 1313

UNIV University Courses Summer 2024

UNIV099 **Internship Seminar**

(Perm req)

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Permission of Internship Coordinator required. Obtain signature and more information at the Career Center, 3100 Hornbake Library. Special fee required for this course.

CP20	Erin Rooney-Eckel, Erica Ely, Jeffrey Quinteros Ceron **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 84)
CP21	Erin Rooney-Eckel, Erica Ely, Jenny Sak **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 90)
CP22	Erin Rooney-Eckel **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 20)

UNIV102 **Confidence Building and Study Skills in Mathematics**

(Perm req)

Restriction: Must be in uTerp Individual Admits program.

A mathematics preparatory class designed to facilitate a student's transition toward fundamental studies mathematics, including study skills and strategies for success.

Contact department for information to register for this course.

UNIV104 **Reading and Writing at the College Level**

(Perm req)

Restriction: Must be in uTerp Individual Admits program.

A workshop designed to enhance students' college level reading and writing abilities to include study skills and strategies for success.

Must be in uTerp Individual Admits program

Contact department for information to register for this course.

UNIV269A **Connecting Across Cultures**

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269C **Connecting Across Cultures; China: Culture, Language and Internship Program**

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV339 **McNair Research Methods and Writing**

As an introduction to qualitative and quantitatvie research methods, students will be taught how to: (1) create, analyze, and disseminate knowledge conceptually and empirically; (2) write a research document; (3) use the IRB process; (4) develop research posters; (5) read and evaluate research studies; (6) read and understand statistics; (7) conduct interviews, develop surveys, and design experiments; and (8) communicate effectively to public audiences.

As an introduction to qualitative and quantitative research methods, students will be taught how to: (1) create, analyze, and disseminate knowledge conceptually and empirically; (2) write a research document; (3) use the IRB process; (4) develop research posters; (5) read and evaluate research studies; (6) read and understand statistics; (7) conduct interviews, develop surveys, and design experiments; and (8) communicate effectively to public audiences.

Contact department for information to register for this course.

UNIV362 **Designing Your Life after College**

Restriction: Must have earned a minimum of 60 credits.

Helps students anticipate and prepare for changes in finances, social life, health, and career dynamics they are likely to experience as they transition from college to working full-time. It focuses on understanding what resources students have as they enter the workforce as critical for navigating post-graduation changes successfully. It offers an overview of financial, risk management and professional development approaches to increase students' confidence regarding post-graduation decisions; in addition, it develops their creative problem solving and reflection skills to help them align the outcomes of their decisions with their values.

WB11	Tori Shay	Seats (Total: 35)
	Meets May 28, 2024 - July 5, 2024	
	Class time/details on ELMs	ONLINE

UNIV389J **Special Topics in Undergraduate Studies**

(Perm req)

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Joan Burton	Seats (Total: 25)
	Meets May 28, 2024 - July 5, 2024	
	Contact instructor or department for details.	

UNIV399 **Experiential Learning in Undergraduate Studies**

(Perm req)

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Contact department for information to register for this course.

URSP Urban Studies and Planning Summer 2024

URSP688Q **Recent Developments in Urban Studies; Japan: The Built Environment, Planning, and the Exploration of Social Justice and Equity**

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

Contact department for information to register for this course.

URSP705 **Summer Community Planning Studio I**

Restriction: Permission of instructor.

Intensive community planning group field work, typically five days a week for four weeks. Often outside the USA. Application of class work to actual planning and policy challenges. Students seeking to meet the URSP studio requirement must also take URSP 706.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

Contact department for information to register for this course.

URSP706 **Summer Community Planning Studio II**

Restriction: Permission of instructor.

Intensive analysis and report-preparation of work completed in URSP 705. Held in College Park. Students seeking to meet the URSP studio requirement must also take URSP 705.

Contact department for information to register for this course.

URSP709 **Field Instruction**

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0201	Clara Irazabal Zurita	Seats (Total: 5)
	Meets July 8, 2024 - August 16, 2024	
	Contact instructor or department for details.	
	Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP898 **Pre-Candidacy Research**

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

VMSC Veterinary Medical Sciences Summer 2024

VMSC699 **Special Problems in Veterinary Medical Sciences**

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC799 **Thesis Research**

Contact department for information to register for this course.

VMSC899 **Dissertation Research**

0124	Xiaoping Zhu **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0126	George Belov **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0127	Meiqing Shi **Meets May 28, 2024 - July 5, 2024** Contact instructor or department for details.	Seats (Total: 5)
0224	Xiaoping Zhu **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

0226	George Belov **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)
0227	Meiqing Shi **Meets July 8, 2024 - August 16, 2024** Contact instructor or department for details.	Seats (Total: 5)

WGSS Women, Gender, and Sexuality Studies — Summer 2024

WGSS105 **Introduction to Disability Studies**

This course will introduce students to theories of disability justice as they intersect with feminist and antiracist struggles. Tracing the emergence of the concept of disability alongside the rise of racial knowledge since the 19th century, we will consider how disability activists have responded to ableism by developing art, political strategies, and subcultures that promote a more just society built for a wider variety of human bodies. Students will learn about the moral, medical, social, and ecological models of disability; explore varied disability experiences relating to mental illness, chronic disease, and sensory and mobility impairments; debate ethical questions concerning eugenics, selective abortion, health care access, and medical technologies; and analyze the work of disabled artists and activists of color. Students will also discuss principles of universal design which seek to make classrooms more just and collaborative. In order to balance accessibility and community building, the course has been designed for synchronous online instruction complemented by optional in-person sessions.

Cross-listed with: AMST298D. Credit only granted for: WGSS105 or AMST298D.

WB11	Jessica Mathiason **Meets May 28, 2024 - July 5, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

WGSS205 **Reproductive Justice: An Introduction**

Developed by feminists of color, reproductive justice frameworks offer a roadmap for economic, social, and medical justice advocacy attentive to the intersections of race, class, gender, sexuality, and disability. This course reviews the historical, legal, and social bases of reproductive rights in the U.S.; discusses the history of feminist organizing for reproductive freedom; surveys critical theories of reproductive justice that go beyond abortion law to advocate for broader social transformation; and evaluates the possible futures of intersectional feminist activism after the overturning of Roe v. Wade.

Cross-listed with: AMST298J.

WB21	Melissa Stevens **Meets July 8, 2024 - August 16, 2024** Class time/details on ELMs	Seats (Total: 30) ONLINE

WGSS368 **Undergraduate WGSS Internship**

(Perm req)

Undergraduate Internship in a position related to women, gender, and sexuality studies and overseen by a member of the WGSS faculty.

WB21	Neel Ahuja	Seats (Total: 4)
	Meets July 8, 2024 - August 16, 2024	
	Class time/details on ELMs	ONLINE

WGSS498M **Advanced Special Topics in Women, Gender, and Sexuality Studies; Women and the Civil Rights Movement**

Advanced study of a thematic topic in women, gender, and sexuality studies.

Also offered as HIST360 and AASP498I. Credit granted for AASP498I, HIST360, or WGSS498M.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 28, 2024 - June 14, 2024	
	Class time/details on ELMs	ONLINE